

bulgin

an INFINITE brand

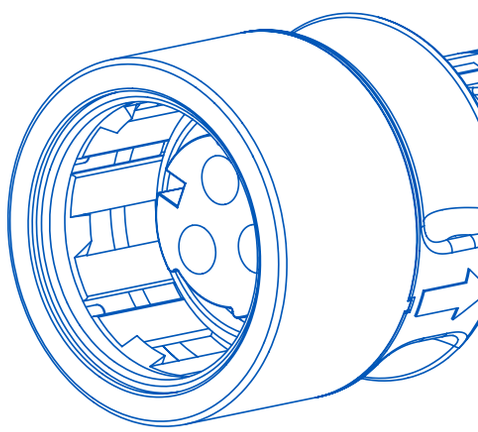
Product Catalogue

sales@prom-elec.com / ООО ПРОМЭЛЕКТРОНИКА

The Bulgin Ethos

Bulgin is widely recognised as a leading manufacturer of environmentally sealed connectors and components. With over 100 years of experience in the industry, Bulgin continues to innovate and develop products and services to cater for its global customer base across a variety of markets.

Working in close collaboration with you, we identify opportunities, mitigate risks and plan how to exploit new and emerging technologies, creating category-driving innovations that deliver on highly demanding projects.



Pushing the boundaries of new product development.

At the Connectivity Lab, we offer our customers a high quality, 'one stop shop' engineering resource, using our technical expertise and extensive knowledge across a range of engineering disciplines to provide human-centered design, as well as turnkey project management capabilities. Liaising directly with our manufacturing plants, the Connectivity Lab ensures that no stone is unturned in getting your ideas off the page and progressing your prototype to full-scale manufacturing to meet the demands of your customers. This simplifies the supply chain and the manufacturing process, reduces production costs and accelerates time to market.

Excellence and experience

Having access to the right expertise, at the right time – whether it is for an individual phase of the development project or the entire production process – is a vital part of the transition from concept to finished product. At Bulgin, we foster an entrepreneurial approach, equipping our engineers with state-of-the-art facilities and cutting-edge design tools, including: analytical modelling computer-aided design rapid prototyping printed circuit board manufacture testing and quality assurance

Celebrating individuality!

All of our customers are individuals and so are their projects. With diverse R&D skills covering every aspect of engineering and a quest to bring high-level innovation to the table, our bespoke services are uniquely tailored to customers' individual needs, giving you the very best results when we take an original concept from design through to manufacture.

We pay close attention to every element of the product development and manufacturing process and have designed the StageGate® Process, our own method to control and document every step. Our service offers ISO 9001 accreditation for document control so that you can reap the benefits of our carefully controlled protocols, whether for just one aspect of a project or the entire development process.

Identify - Design - Build - Validate - Sustain

Our Skills

Whatever your engineering requirement is, we have the knowledge and capability in-house to bring your projects to reality.

Mechanical
- in-house 3D modelling
- finite element analysis
- rapid prototyping
- 3D rendered models

Electronics
- in-house modelling
- simulation
- rapid prototyping
- optimized printed circuit board layouts
- human-centered design

Assembly
- cable to connector complete assemblies
- overmoulding tools for all our connectors
- enclosures and complete panel assembly
- turnkey solutions for finished article or sub-assembly parts



Approvals

Good design, high quality and maximum value have formed an integral part of the Bulgin philosophy.

We maintain a documented quality plan specifying process and product goals and are approved by BSI to ISO9001.

Investment in new plant and equipment makes an important contribution to continuous quality improvements. The risk of errors in the transition from design to manufacture is greatly reduced by the digital data flows from our CAD system, and our sophisticated automatic manufacturing equipment which can form and assemble components to consistently high quality standards.



All new products are extensively pre-production tested, in our dedicated electrical and mechanical test facility, which also conducts regular checks during manufacture.

The numerous international safety approvals gained are testimony in themselves to Bulgin's ongoing commitment to quality and the world wide market place.

These European Directives introduced environmental responsibilities for electrical and electronics equipment manufacturers. The RoHS (Restriction of use of certain Hazardous Substances) regulation (Directive 2002/95/EC) came into force July 2006. The WEEE (Waste Electrical and Electronic Equipment) regulation (Directive 2002/96/EC), came into force January 2007.

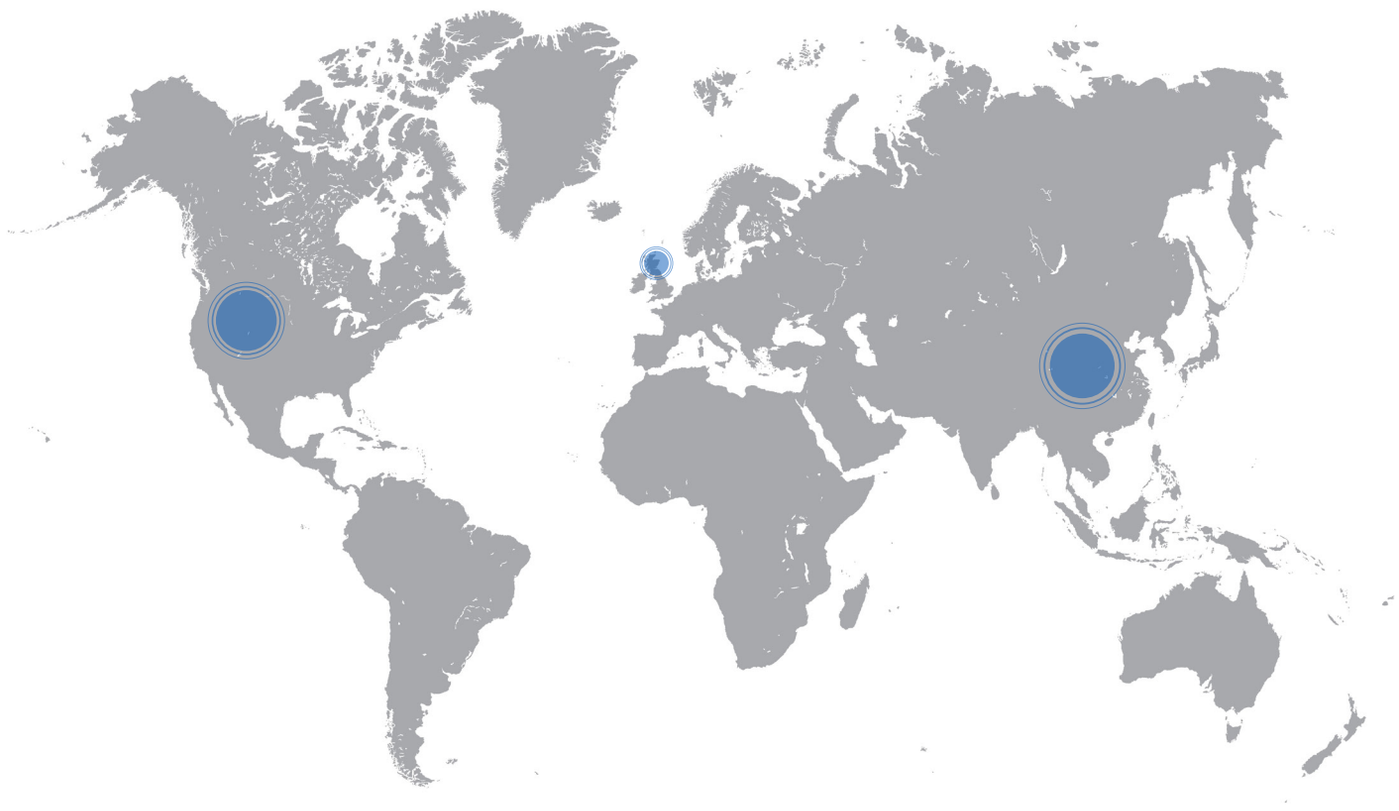
The RoHS directive effectively bans the use of certain chemicals, these are defined as:
- Lead
- Cadmium
- Mercury
- Hexavalent Chromium
- Polybrominated Biphenyl (PBB) - flame retardant
- Polybrominated Diphenyl Ether (PBDE) - flame retardant (including Deca BDE)

Action has been taken to ensure all standard products meet the requirements of this directive. All packing carries RoHS compliance information as conformation.

*Our IP ratings are internally tested to EN 60529. IP68 rated products have undergone immersion testing in water at a depth of 10M for a period of 2 weeks unless otherwise stated.

Our Offices

Bulgin has a global presence, with regional offices located in the UK, US and China. Our reach is also through an extensive distribution network which covers over 200 countries worldwide.



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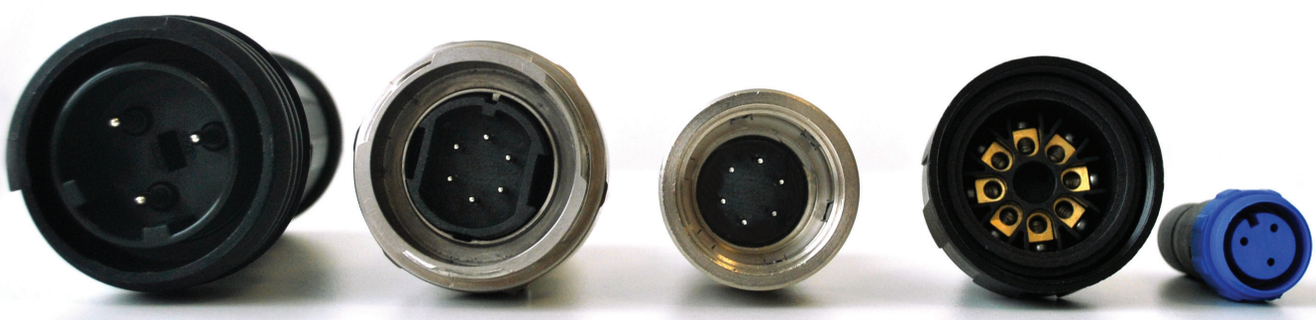


A full range of IP66, IP68 and IP69K rated environmentally sealed circular connectors designed to provide secure and safe connections in harsh or hostile conditions.

The Power Buccaneer range consist of the miniature 400, Mini, Standard, 900, 7000 and 6000 Series. Screw terminations ensure simple 'field' connection, while crimp terminations fulfil the requirement for fast effective volume connections.

Each range has flex cable connector, Inline cable connector and panel mounting connector options. Over molded versions of the 400 series and Standard Buccaneer provide safe, secure and tamperproof cable termination.

With a wide choice of alternatives from 2 to 32 Contacts, BNC connections and screw, solder or crimp terminations, the Buccaneer range provides the answer to many design problems.



EXPlora 9
900 Series Buccaneer 8
Standard Buccaneer 14
Mini Buccaneer 24
400 Series Buccaneer 28
4000 Series Buccaneer 34
6000 Series Buccaneer 47
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The EXPlora range is most suited to manufacturers of ancillary electrical equipment such as motors, pumps, lighting equipment, process and control gear for use in factories.



EXPlora is rated up to 18A, 600V AC/DC for 2, 3, 4 and 5 Contacts, 16A, 430V AC/DC for 7 Contact and 10A, 250V AC/DC for 10 Contacts. The 3, 4, 5 and 7 Contact versions have leading earth contacts making them suitable for single or three phase applications.

EXP Series EXPlora



- IP68 rating tested at 1.054kg/sq cm (15lb/sq in)
- 10m depth for 2 weeks
- 2, 3, 4, 5, 7 and 10 Contact
- Leading earth contact for 3, 4, 5 & 7 Contact versions
- Trailing Neutral on 5 Contact
- Plug or socket connection in each body style
- Water and dustproof to IP68 when mated
- Single or 3 phase applications
- Cable acceptance from 7 to 22mm O/D
- Separate strain relief on large cable version
- 'Scoop proof' contacts
- Field termination - screw terminations
- Positive locating keyways - cannot be mis-connected
- Sealing caps available to maintain IP68 rating of unmated connectors
- Compact design
- Easy assembly - no special tools required
- Cost effective solution
- Two cable connector versions for 15mm and 22mm (maximum) cable diameters

Flex Cable Connector



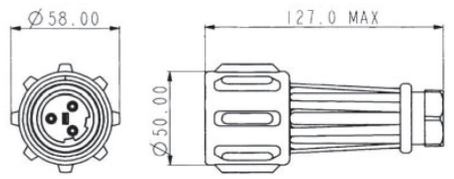
EXP-0911

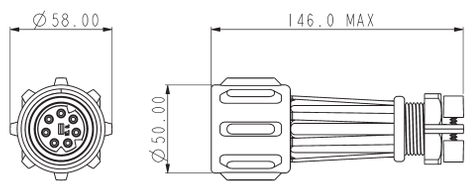
Flex Cable Connector



EXP-A911

- Mates with Inline or panel mounting versions
- Positive, fast acting locking ring - can be turned with a gloved hand
- Plug or socket versions
- EXP-0 Series13-15mm cable dia. acceptance as standard, 7-13mm with additional Gland Pack PX0980
- EXP-A Series 20-22mm cable dia. Acceptance as standard, 14-20mm with additional Gland Pack PXA980
- Strain Relief Clamp





Standard Cable	Large Cable	Description	Standard Cable	Large Cable	Description
EXP-0911/02/P	EXP-A911/02/P	2 Contact Plug	EXP-0911/02/S	EXP-A911/02/S	2 Contact Socket
EXP-0911/03/P	EXP-A911/03/P	3 Contact Plug	EXP-0911/03/S	EXP-A911/03/S	3 Contact Socket
EXP-0911/04/P	EXP-A911/04/P	4 Contact Plug	EXP-0911/04/S	EXP-A911/04/S	4 Contact Socket
EXP-0911/05/P	EXP-A911/05/P	5 Contact Plug	EXP-0911/05/S	EXP-A911/05/S	5 Contact Socket
EXP-0911/07/P	EXP-A911/07/P	7 Contact Plug	EXP-0911/07/S	EXP-A911/07/S	7 Contact Socket
EXP-0911/10/P	EXP-A911/10/P	10 Contact Plug	EXP-0911/10/S	EXP-A911/10/S	10 Contact Socket

Inline Cable Connector



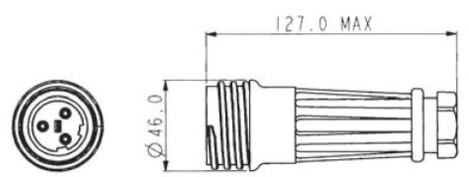
EXP-0921

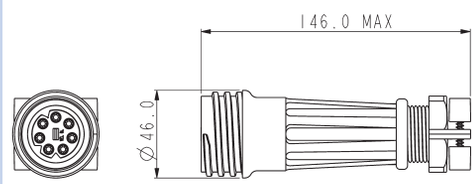
Inline Cable Connector



EXP-A921

- Mates with either EXP-0911 or EXP-A911 connectors
- Plug or socket versions
- EXP-0 Series13-15mm cable dia. acceptance as standard, 7-13mm with additional Gland Pack PX0980
- EXP-A Series 20-22mm cable dia. acceptance as standard, 14-20mm with additional Gland Pack PXA980
- Strain Relief Clamp





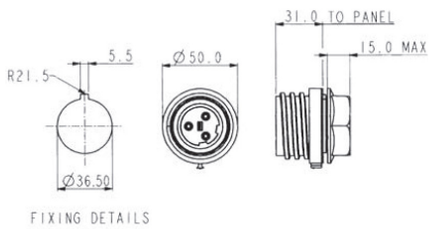
Standard Cable	Large Cable	Description	Standard Cable	Large Cable	Description
EXP-0921/02/P	EXP-A921/02/P	2 Contact Plug	EXP-0921/02/S	EXP-A921/02/S	2 Contact Socket
EXP-0921/03/P	EXP-A921/03/P	3 Contact Plug	EXP-0921/03/S	EXP-A921/03/S	3 Contact Socket
EXP-0921/04/P	EXP-A921/04/P	4 Contact Plug	EXP-0921/04/S	EXP-A921/04/S	4 Contact Socket
EXP-0921/05/P	EXP-A921/05/P	5 Contact Plug	EXP-0921/05/S	EXP-A921/05/S	5 Contact Socket
EXP-0921/07/P	EXP-A921/07/P	7 Contact Plug	EXP-0921/07/S	EXP-A921/07/S	7 Contact Socket
EXP-0921/10/P	EXP-A921/10/P	10 Contact Plug	EXP-0921/10/S	EXP-A921/10/S	10 Contact Socket

Front Panel Mounting Connector



EXP-0931

- Mates with EXP-0911 and EXP-A911 connectors
- Single hole fixing
- Anti-rotation key
- High grade sealing gasket
- 3-7mm panel thickness



Panel Mounting

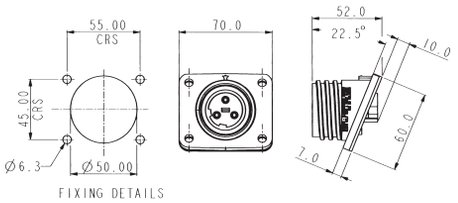
EXP-0931/02/P	2 Contact Plug	EXP-0931/02/S	2 Contact Socket
EXP-0931/03/P	3 Contact Plug	EXP-0931/03/S	3 Contact Socket
EXP-0931/04/P	4 Contact Plug	EXP-0931/04/S	4 Contact Socket
EXP-0931/05/P	5 Contact Plug	EXP-0931/05/S	5 Contact Socket
EXP-0931/07/P	7 Contact Plug	EXP-0931/07/S	7 Contact Socket
EXP-0931/10/P	10 Contact Plug	EXP-0931/10/S	10 Contact Socket

Flange Mounting Connector



EXP-0941

- Mates with EXP-0911 and EXP-A911 connectors
- Supplied with high grade sealing gasket
- Supplied with sealing grommets for panel fixing screws (M6 thread recommended)



Panel Mounting

EXP-0941/02/P	2 Contact Plug	EXP-0941/02/S	2 Contact Socket
EXP-0941/03/P	3 Contact Plug	EXP-0941/03/S	3 Contact Socket
EXP-0941/04/P	4 Contact Plug	EXP-0941/04/S	4 Contact Socket
EXP-0941/05/P	5 Contact Plug	EXP-0941/05/S	5 Contact Socket
EXP-0941/07/P	7 Contact Plug	EXP-0941/07/S	7 Contact Socket
EXP-0941/10/P	10 Contact Plug	EXP-0941/10/S	10 Contact Socket

Sealing Caps



EXP-0990, EXP-0991, EXP-0992

- Heavy duty sealing caps to maintain IP68 rating of unmated connectors, with stainless steel straps

Sealing Caps

EXP-0990	Heavy duty sealing cap for use with EXP-0911/xx/x and EXP-A911/xx/x
EXP-0991	Heavy duty sealing cap for use with EXP-0921/xx/x and EXP-A921/xx/x
EXP-0992	Heavy duty sealing cap for use with EXP-0931 and EXP-0941

Cable Glands



PX0980, PXA980

- Packs of 3 additional pairs Cable Glands for 900 Series Flex Cable Connectors

Gland Packs

EXP-0980	Pack of 3 additional cable glands for EXP-0911 and EXP-0921 to suit cable sizes: 7-9mm (Dark Grey), 9-11mm (White) and 11-13mm (Black) diameter
EXP-A980	Pack of 3 additional cable glands for EXP-A911 and EXP-A921 to suit cable sizes: 14-16mm (Dark Grey), 16-18mm (White) and 18-20mm (Black) diameter

EXP-X9	X	X	/ XX	/ X	/ X

Series Designation
09 = Standard Cable Accommodation (ø7-15mm)

A9 = Large Cable Accommodation (ø14-22mm)

Body Styles
1 = Flex,
2 = Inline,
3 = Front Panel,
4 = Flange Panel

Contact Termination
1 = Screw Terminal

Number of Contacts
02
03
04
05
07
10

Contact Type
P = Plug, S = Socket

Cable Acceptance
EXP-0 version:
Blank = 13-15mm
Yellow cable gland (std)

3 = 11-13mm
Black cable gland

2 = 9-11mm
White cable gland

1 = 7-9mm
Dark Grey cable gland

EXP-A version:
Blank = 20-22mm
Yellow cable gland (std)

9 = 18-20mm
Black cable gland

8 = 16-18mm
White cable gland

7 = 14-16mm
Dark Grey cable gland

Example:
EXP-0911/07/P/3 = Flex cable connector body, seven Plug contacts, with gland to suit 11-13mm cable.

Contact Layout


2 Contact


3 Contact


4 Contact


5 Contact


7 Contact


10 Contact

Overall dimensions of connectors when mated together:

EXP-0911 + EXP-0921	230 mm max.	EXP-A911 + EXP-A931	175 mm max. (to panel)
EXP-A911 + EXP-A921	270 mm max.	EXP-0911 + EXP-0941	145 mm max. (to panel, mid point on flange)
EXP-0911 + EXP-0931	135 mm max. (to panel)	EXP-A911 + EXP-A941	174 mm max. (to panel, mid point on flange)

Electrical:

No Contacts:	2, 3, 4, 5	7	10
Current Rating:	18A	16A	10A
Voltage Rating:	600V AC/DC	430V AC/DC	250V AC/DC
Contact Resistance:	<10mΩ (initial)		
Insulation Resistance:	$>10^6$MΩ (@ 500V DC)		
Dielectric strength:	2.2kV DC min		
AC Breakdown voltage:	6kV		
Ambient Temperature Range:	–20°C to +55°C		

Materials:

Body Mouldings:	Polyester
Cap Mouldings:	Polycarbonate
Flammability Rating:	UL94V-0
Contacts:	Machined Solid Brass, Nickel plated
O Rings:	Nitrile Panel
Sealing Gasket:	Silicone Rubber
RoHS	Compliant

Mechanical:

Sealing:	IP68, EN60529:2001 tested @ 1.054kg/sq.cm. (15lb/sq.in.) 10m depth for 2 weeks
Cable Acceptance:	EXP-0911 - EXP-0921 13 - 15mm O/D standard, 7-13mm with Gland Pack PX0980 EXP-A911 - EXP-A921 20 - 22mm O/D standard, 14 - 20mm with Gland Pack PXA980
Contact Accommodation:	2-7 Contact - 2.5 to 4mm2 (14 to 10AWG) conductor, single or multi stranded 10 Contact - 0.75 to 2mm2 (14 to 18AWG) conductor, single or multi stranded
Termination:	Axial screw terminals
Cable Retention force:	22mm dia, 150N 15mm dia, 150N 7mm dia, 80N
Gland Nut Torques:	
EXP-0 range	
13-15mm (Yellow - std.)	3.16Nm (28lbf/in)
11-13mm (black)	3.16Nm (28lbf/in)
9-11mm (white)	3.16Nm (28lbf/in)
7-9mm (dark grey)	3.16Nm (28lbf/in)
EXP-A range	
20-22mm (Yellow - std.)	3.16Nm (28lbf/in)
18-20mm (black)	3.16Nm (28lbf/in)
16-18mm (white)	3.16Nm (28lbf/in)
14-16mm (dark grey)	3.16Nm (28lbf/in)
Tightening Torques:	
Panel mount nut	2.25Nm
Flange & Bulkhead fixing screws	0.9Nm
Rear thread EXP-0931 series	M36 x 2-6g

900 Series Buccaneer



- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- 32A, 600V AC/DC rating
- 2, 3, 4, 5, 7 and 10 Contact
- Plug or socket connection in each body style
- Water and dustproof to IP68 when mated
- 'Scoop proof' contacts
- Field termination - screw terminations
- Positive locating keyways - cannot be mis-connected
- Sealing caps available to maintain IP68 rating of unmated connectors
- Leading earth contact for 3, 4, 5 and 7 Contact versions
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- Trailing Neutral on 5 Contact
- Compact design
- Easy assembly - no special tools required
- Single or 3 phase applications
- Bulkhead moulding available for use with flange mounting body for 45° or 90° mounting (order each separately)
- Cost effective solution
- Cable accommodation 7-22mm O/D
- Two cable connector versions for 15mm and 22mm (maximum) cable diameters
- Separate strain relief on large cable version
- VDE and cULus approvals

Flex Cable Connector



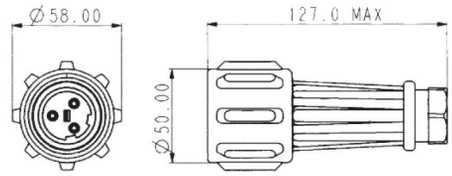
PX0911

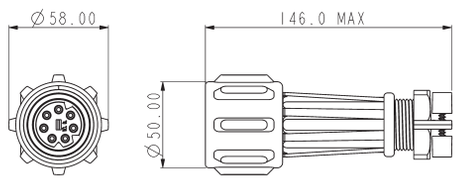
Flex Cable Connector



PXA911

- Mates with Inline or panel mounting versions
- Positive, fast acting locking ring - can be turned with a gloved hand
- Plug or socket versions
- PX0 Series13-15mm cable dia. as standard, 7-13mm with additional Gland Pack PX0980
- PXA Series 20-22mm cable dia. as standard, 14-20mm with additional Gland Pack PXA980
- Strain Relief Clamp





Standard Cable	Large Cable	Description	Standard Cable	Large Cable	Description
PX0911/02/P	PXA911/02/P	2 Contact Plug	PX0911/02/S	PXA911/02/S	2 Contact Socket
PX0911/03/P	PXA911/03/P	3 Contact Plug	PX0911/03/S	PXA911/03/S	3 Contact Socket
PX0911/04/P	PXA911/04/P	4 Contact Plug	PX0911/04/S	PXA911/04/S	4 Contact Socket
PX0911/05/P	PXA911/05/P	5 Contact Plug	PX0911/05/S	PXA911/05/S	5 Contact Socket
PX0911/07/P	PXA911/07/P	7 Contact Plug	PX0911/07/S	PXA911/07/S	7 Contact Socket
PX0911/10/P	PXA911/10/P	10 Contact Plug	PX0911/10/S	PXA911/10/S	10 Contact Socket

Inline Cable Connector



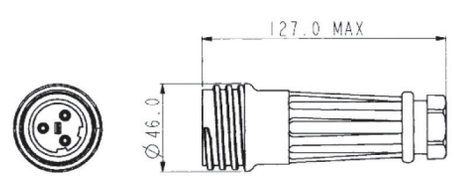
PX0921

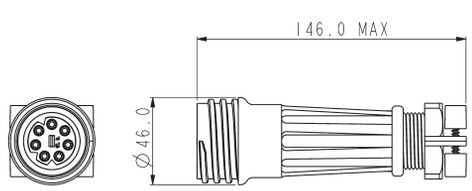
Inline Cable Connector



PXA921

- Mates with either PX0911 or PXA911 connectors
- Plug or socket versions
- PX0 Series 13-15mm cable dia. as standard, 7-13mm with additional Gland Pack PX0980
- PXA Series 20-22mm cable dia. as standard, 14-20mm with additional Gland Pack PXA980
- Strain Relief Clamp





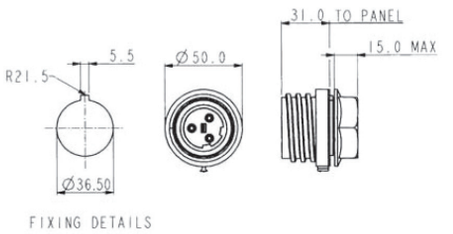
Standard Cable	Large Cable	Description	Standard Cable	Large Cable	Description
PX0921/02/P	PXA921/02/P	2 Contact Plug	PX0921/02/S	PXA921/02/S	2 Contact Socket
PX0921/03/P	PXA921/03/P	3 Contact Plug	PX0921/03/S	PXA921/03/S	3 Contact Socket
PX0921/04/P	PXA921/04/P	4 Contact Plug	PX0921/04/S	PXA921/04/S	4 Contact Socket
PX0921/05/P	PXA921/05/P	5 Contact Plug	PX0921/05/S	PXA921/05/S	5 Contact Socket
PX0921/07/P	PXA921/07/P	7 Contact Plug	PX0921/07/S	PXA921/07/S	7 Contact Socket
PX0921/10/P	PXA921/10/P	10 Contact Plug	PX0921/10/S	PXA921/10/S	10 Contact Socket

Front Panel Mounted Connector



PX0931

- Mates with PX0911 and PXA911 connectors
- Single hole fixing
- Anti-rotation key
- High grade sealing gasket
- 3-7mm panel thickness



Panel Mounting

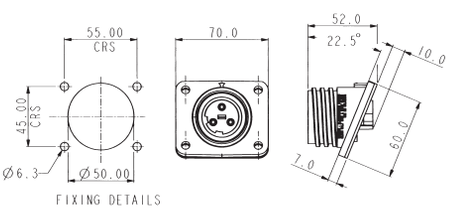
PX0931/02/P	2 Contact Plug	PX0931/02/S	2 Contact Socket
PX0931/03/P	3 Contact Plug	PX0931/03/S	3 Contact Socket
PX0931/04/P	4 Contact Plug	PX0931/04/S	4 Contact Socket
PX0931/05/P	5 Contact Plug	PX0931/05/S	5 Contact Socket
PX0931/07/P	7 Contact Plug	PX0931/07/S	7 Contact Socket
PX0931/10/P	10 Contact Plug	PX0931/10/S	10 Contact Socket

Flange Mounted Connector



PX0941

- Mates with PX0911 and PXA911 connectors
- Supplied with high grade sealing gasket
- Supplied with sealing grommets for panel fixing screws (M6 thread recommended)



Flange Mounting

PX0941/02/P	2 Contact Plug	PX0941/02/S	2 Contact Socket
PX0941/03/P	3 Contact Plug	PX0941/03/S	3 Contact Socket
PX0941/04/P	4 Contact Plug	PX0941/04/S	4 Contact Socket
PX0941/05/P	5 Contact Plug	PX0941/05/S	5 Contact Socket
PX0941/07/P	7 Contact Plug	PX0941/07/S	7 Contact Socket
PX0941/10/P	10 Contact Plug	PX0941/10/S	10 Contact Socket

Additional Bulkhead Adaptor Moulding



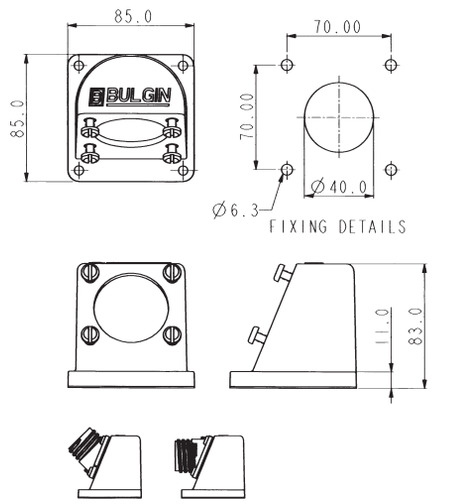
PX0950

Additional Bulkhead Adaptor Moulding



PX0950 & PX0941

- For use with flange mounting connector PX0941, to give 45° or 90° angle
- Supplied with high grade sealing gasket
- Supplied with sealing grommets for panel fixing screws (M6 thread recommended)



Sealing Caps



PX0960, PX0970, PX0990, PX0991, PX0992

- Sealing caps to maintain IP68 rating of unmated connectors, with plastic straps
- Heavy duty sealing caps to maintain IP68 rating of unmated connectors, with stainless steel straps

Cable Glands



PX0980, PXA980

- Packs of 3 additional pairs Cable Glands

Sealing Caps

PX0960	Sealing cap for use with PX0911/xx/x and PXA911/xx/x
PX0970	Sealing cap for use with all other styles
PX0990	Heavy duty sealing cap for use with PX0911/xx/x and PXA911/xx/x
PX0991	Heavy duty sealing cap for use with PX0921/xx/x and PXA921/xx/x
PX0992	Heavy duty sealing cap for use with PX0931Wand PX0941

Gland Packs

PX0980	Pack of 3 additional cable glands for PX0911 and PX0921 to suit cable sizes: 7-9mm (dark grey), 9-11mm (white) and 11-13mm (Black) diameter
PXA980	Pack of 3 additional cable glands for PXA911 and PXA921 to suit cable sizes: 14-16mm (dark grey), 16-18mm (white) and 18-20mm (black) diameter

Electrical

No Contacts:	2, 3	4, 5	7	10†
Current Rating:	32A 30A, CSA	32A 25A, CSA	32A 25A, CSA*	10A UL
Voltage Rating:	600V AC/DC	600V AC/DC	430V AC/DC	250V AC/DC

Contact Resistance: <10m Ω (initial)
Insulation Resistance: >10^6MΩ (@ 500V DC)
Dielectric strength: 2.2kV AC min
AC Breakdown voltage: 6kV

Operating
Temperature Range: –40°C to +85°C
Approvals:

cULus (Underwriters Laboratory)	E214972
VDE (Verband der Elektrotechnik)	1211899 40003148

*with 75°C min. rated cable

Material

Body Mouldings:	Polyamide
Flammability Rating:	UL94V-0
UV Resistance:	To EN50021: 1999
Contacts:	Machined Solid Brass, Nickel plated
O Rings:	Nitrile
Panel Sealing Gasket:	Silicone Rubber
RoHS	Compliant

Contact Layout



2 Contact 3 Contact 4 Contact 5 Contact 7 Contact 10 Contact

Dimensions

Overall dimensions of connectors when mated together

PX0911 + PX0921 230 mm max.
PXA911 + PXA921 270 mm max.

PX0911 + PX0931 135 mm max. (to panel)
PXA911 + PX0931 175 mm max. (to panel)

PX0911 + PX0941 145 mm max.
(to panel, mid point on flange)

PXA911 + PX0941 174 mm max.
(to panel, mid point on flange)

Mechanical:

Sealing:	IP69K, Tested in accordance with DIN 40050/Part 9 IP6K9K. IP68, EN60529:1992+A2:2013 tested @ 1.054kg/sq.cm. (15lb/sq.in.) 10m depth for 2 weeks
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Cable Acceptance:	PX0911-PX0921 13 - 15mm O/D standard, 7-13mm with gland pack PX0980 PXA911-PXA921 20 - 22mm O/D standard, 14 - 20mm with gland pack PXA980
Contact Accommodation:	2-7 Contact - 2.5 to 4mm2 (14 to 10AWG) conductor, single or multi stranded 10 Contact - 0.75 to 2.5mm2 (14 to 18AWG) conductor, single or multi stranded
Termination:	Axial screw terminals
Cable Retention force:	22mm dia, 150N 15mm dia, 150N 7mm dia, 80N

Gland Nut Torques:

PX0 range	
13-15mm (Yellow - std.)	3.16Nm (28 lbf.in.)
11-13mm (black)	3.16Nm (28 lbf.in.)
7-9mm (dark grey)	3.16Nm (28 lbf.in.)
PXA range	3.16Nm (28 lbf.in.)
20-22mm (Yellow - std.)	
18-20mm (black)	3.16Nm (28 lbf.in.)
16-18mm (white)	3.16Nm (28 lbf.in.)
14-16mm (dark grey)	3.16Nm (28 lbf.in.)

Tightening Torques:

Panel mount nut	2.25Nm (20 lbf.in.)
Flange & Bulkhead fixing screws	0.9Nm (8 lbf.in.)
Inserts into Bodies	1.13Nm (10 lbf.in.) to 1.36Nm (12 lbf.in.)
Term screws - 2 to 5 Contacts	1.0Nm (9 lbf.in.) max
Term screws - 7 Contact	0.4Nm (3.5 lbf.in.) max
Term screws - 10 Contact	0.25Nm (2.2 lbf.in.) max

Rear thread PX0931 series M36 x 2-6g

PXX9	X	X	/ XX	/ X	/ XX

Series Designation

09 = Standard Cable Accommodation (ø7-15mm)

A9 = Large Cable Accommodation (ø14-22mm)

Body Styles

1 = Flex
2 = Inline
3 = Front Panel
4 = Flange Panel

Contact Termination

1 = Screw Terminal

Number of Contacts

02
03
04
05
07
10

Contact Type

P = Plug, S = Socket

Cable Acceptance

PX-0 version:
Blank = 13-15mm
Yellow cable gland (std)

03 = 11-13mm
Black cable gland

02 = 9-11mm
White cable gland

01 = 7-9mm
Dark Grey cable gland

PX-A version:
Blank = 20-22mm
Yellow cable gland (std)

09 = 18-20mm
Black cable gland

08 = 16-18mm
White cable gland

07 = 14-16mm
Dark Grey cable gland

Example:

PX0911/07/P/03 = Flex cable connector with standard cable accommodation body, seven Plug contacts, with gland to suit 11-13mm cable.

Standard Buccaneer



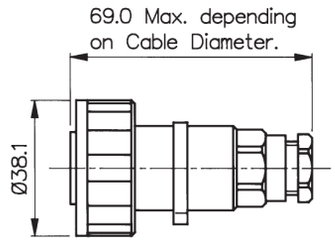
- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks and 9.84kg/sq cm (140lb/sq in) 100m depth for 12 hours
- IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- Water and dustproof to IP68 when mated
- 2, 3, 4, 6, 7, 9, 12 and 25 Contact
- 12A, 277V AC/DC 2 Contact screw terminal, 3 Contact screw terminal and crimp contacts
- 10A, 277V AC/DC 4 Contact screw terminal
- 5A, 277V AC/DC6 and 7 Contact screw terminal
- 5A, 150V AC/DC 9 Contact crimp contacts
- 5A, 50V AC/DC 12 Contact crimp and solder contacts
- 1A, 50V AC/DC 25 Contact crimp and solder contacts
- Plug or socket connection in each body style
- Compact design
- Diameter over coupling ring 38mm
- Sealing caps available to maintain IP68 rating of unmated connectors
- 7 body styles - flex cable, Inline cable, panel mount (front), panel mount (rear), PCB mount, bulkhead and flange mount
- Leading earth contact for 3 Contact socket version
- Positive locating keyways - cannot be mis-connected
- Easy assembly - no special tools required on screw terminal versions
- Cable range from 3.5mm - 9mm
- Colour coded identification variants
- Pre-wired, overmoulded cable assemblies
- VDE ans cULus approvals
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Flex Cable Connector



PX0731/P

- Mates with Inline or Panel Mounting Versions
- Screw Locking Ring
- Plug or Socket Versions
- Leading Earth on 3 Contact connectors
- Contacts 2, 3, 4, 6, 7, 9, 12, 25
- Standard Cable Acceptance (2 to 9 Contact) 6-8mm, 3.5-9mm with alternative glands - See page 25



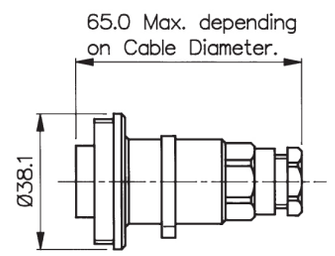
Contacts	Termination	Plug Contacts	Socket Contact	Contacts
2	Screw	PX0736/P	PX0736/S	Supplied Fitted
3	Screw	PX0731/P	PX0731/S	Supplied Fitted
3	Crimp	PX0776/P	PX0776/S	Supplied Loose
4	Screw	PX0748/P	PX0748/S	Supplied Fitted
6	Screw	PX0739/P	PX0739/S	Supplied Fitted
7	Screw	PX0745/P	PX0745/S	Supplied Fitted
9	Crimp	PX0728/P	PX0728/S	Supplied Loose
12	Crimp/Solder	PX0794/P	PX0794/S	Order Separately (SA3348/SA3347)
25	Crimp/Solder	PX0820/P	PX0820/S	Order Separately (SA3180/SA3179)

Inline Cable Connector



PX0732/S

- Mates with Flex or Panel Mounting Versions
- Screw Locking Ring
- Plug or Socket Versions
- Leading Earth on 3 Contact connectors
- Contacts 2, 3, 4, 6, 7, 9, 12, 25
- Standard Cable Acceptance (2 to 9 Contact) 6-8mm, 3.5-9mm with alternative glands - See page 25



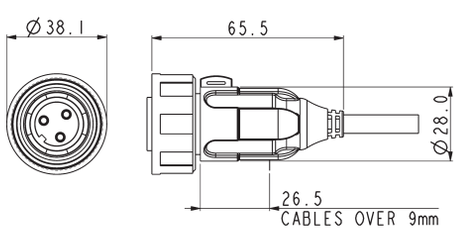
Contacts	Termination	Plug Contacts	Socket Contact	Contacts
2	Screw	PX0737/P	PX0737/S	Supplied Fitted
3	Screw	PX0732/P	PX0732/S	Supplied Fitted
3	Crimp	PX0778/P	PX0778/S	Supplied Loose
4	Screw	PX0749/P	PX0749/S	Supplied Fitted
6	Screw	PX0740/P	PX0740/S	Supplied Fitted
7	Screw	PX0746/P	PX0746/S	Supplied Fitted
9	Crimp	PX0729/P	PX0729/S	Supplied Loose
12	Crimp/Solder	PX0795/P	PX0795/S	Order Separately (SA3348/SA3347)
25	Crimp/Solder	PX0821/P	PX0821/S	Order Separately (SA3180/SA3179)

Pre Wired Flex Cable Connector



PX0700

- Overmoulded cable assemblies
- Up to 14mm dia cable with PVC or PU jackets
- Mates with Inline connector and all panel connectors

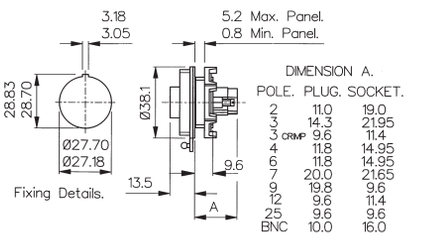


Front Panel Mounting Connector



PX0730/P

- Mates with Flex Cable Connector
- Single Hole Fixing
- Plug or Socket Versions
- Contacts 2, 3, 4, 6, 7, 9, 12, 25



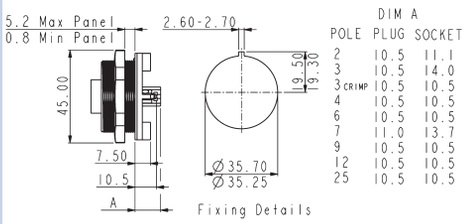
Contacts	Termination	Plug Contacts	Socket Contact	Contacts
2	Screw	PX0735/P	PX0735/S	Supplied Fitted
3	Screw	PX0730/P	PX0730/S	Supplied Fitted
3	Crimp	PX0779/P	PX0779/S	Supplied Loose
4	Screw	PX0747/P	PX0747/S	Supplied Fitted
6	Screw	PX0738/P	PX0738/S	Supplied Fitted
7	Screw	PX0744/P	PX0744/S	Supplied Fitted
9	Crimp	PX0727/P	PX0727/S	Supplied Loose
12	Crimp/Solder	PX0796/P	PX0796/S	Order Separately
25	Crimp/Solder	PX0822/P	PX0822/S	Order Separately

Rear Panel Mounting Connector



PX0709/P/03

- Mates with Flex Cable Connector
- Single Hole Fixing
- Plug or Socket Versions
- Contacts 2, 3, 4, 6, 7, 9, 12 or 25



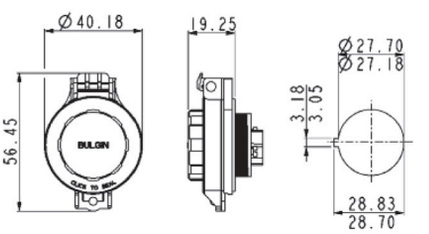
Contacts	Termination	Plug Contacts	Socket Contact	Contacts
2	Screw	PX0709/P/02	PX0709/S/02	Supplied Fitted
3	Screw	PX0709/P/03	PX0709/S/03	Supplied Fitted
3	Crimp	PX0708/P/03	PX0708/S/03	Supplied Loose
4	Screw	PX0709/P/04	PX0709/S/04	Supplied Fitted
6	Screw	PX0709/P/06	PX0709/S/06	Supplied Fitted
7	Screw	PX0709/P/07	PX0709/S/07	Supplied Fitted
9	Crimp	PX0708/P/09	PX0708/S/09	Supplied Loose
12	Crimp/Solder	PX0708/P/12	PX0708/S/12	Order Separately (SA3348/SA3347)
25	Crimp/Solder	PX0708/P/25	PX0708/S/25	Order Separately (SA3180/SA3179)

Sprung Loaded Sealing Cap



PX0713

- IP54 rated
- Spring loaded
- Clip shut to seal
- For use with front of panel mounting connector types

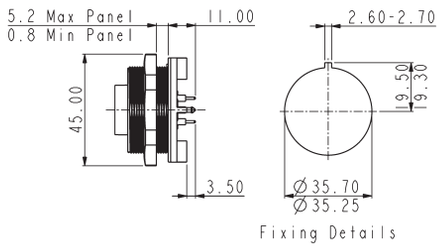


Rear PCB Mounting Connector



PX0707/P/12

- Mates with Flex Cable connector
- No. Contacts: 3, 4, 6, 9, 12 or 25
- Plug or socket versions
- Pre-loaded Gold Plated contacts



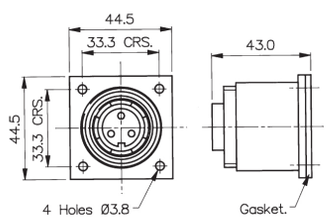
Contacts	Termination	Plug Contacts	Socket Contact	Contacts
3	PCB	PX0707/P/03	PX0707/S/03	Supplied Fitted
4	PCB	PX0707/P/04	PX0707/S/04	Supplied Fitted
6	PCB	PX0707/P/06	PX0707/S/06	Supplied Fitted
9	PCB	PX0707/P/09	PX0707/S/09	Supplied Fitted
12	PCB	PX0707/P/12	PX0707/S/12	Supplied Fitted
25	PCB	PX0707/P/25	PX0707/S/25	Supplied Fitted

Bulkhead Flange Mounting Connector



PX0756/S

- Mates with Flex Cable Connector
- Plug or Socket Versions
- Contacts 2, 3, 4, 6, 7, 9, 12, 25
- Supplied with sealing gasket and screw sealing grommets



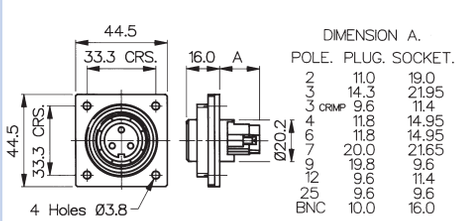
Contacts	Termination	Plug Contacts	Socket Contact	Contacts
2	Screw	PX0757/P	PX0757/S	Supplied Fitted
3	Screw	PX0756/P	PX0756/S	Supplied Fitted
3	Crimp	PX0787/P	PX0787/S	Supplied Loose
4	Screw	PX0761/P	PX0761/S	Supplied Fitted
6	Screw	PX0758/P	PX0758/S	Supplied Fitted
7	Screw	PX0760/P	PX0760/S	Supplied Fitted
9	Crimp	PX0762/P	PX0762/S	Supplied Loose
12	Crimp/Solder	PX0798/P	PX0798/S	Order Separately (SA3348/SA3347)
25	Crimp/Solder	PX0823/P	PX0823/S	Order Separately (SA3180/SA3179)

Low Profile Flange Mounting Connector



PX0765/S

- Screw Flange Fixing
- Plug or Socket Versions
- Contacts 2, 3, 4, 6, 7, 9, 12, 25
- Mates with Flex Cable Connector
- Supplied with sealing gasket and screw sealing grommets



Contacts	Termination	Plug Contacts	Socket Contact	Contacts
2	Screw	PX0764/P	PX0764/S	Supplied Fitted
3	Screw	PX0765/P	PX0765/S	Supplied Fitted
3	Crimp	PX0781/P	PX0781/S	Supplied Loose
4	Screw	PX0766/P	PX0766/S	Supplied Fitted
6	Screw	PX0767/P	PX0767/S	Supplied Fitted
7	Screw	PX0768/P	PX0768/S	Supplied Fitted
9	Crimp	PX0769/P	PX0769/S	Supplied Loose
12	Crimp/Solder	PX0797/P	PX0797/S	Order Separately (SA3348/SA3347)
25	Crimp/Solder	PX0824/P	PX0824/S	Order Separately (SA3180/SA3179)

Coloured Contact Inserts



Coloured Inserts

- With or without matching gland nut
- Positive visual identification
- Available in; Black, Blue, Green, Grey, Light Grey, Red, White and Yellow

Contact Inserts Colour Options

Part No	Suffix Colour
Blank	Black
BL	Blue
GN	Green
GY	Grey
LG	Light Grey
RD	Red
WH	White
YL	Yellow

Insert/Gland Nut Combinations

1	Insert and Gland Nut Coloured
2	Insert Only Coloured

E.g. PX0731/P/YL1 = Yellow insert and gland nut

Contacts for 12 and 25 Contact Inserts



12 and 25 way contacts

- Crimp or Solder Plugs and Sockets
- Gold Plated
- Current ratings:
  12 way: 5A, 50V
  25 way: 1A, 50V

Contacts - Solder & Crimp for 12 and 25 Contact

Contacts (for 12 Contact) (Supplied in packs of 10)	Solder	Crimp
Plugs	SA3348/1	SA3348
Sockets	SA3347/1	SA3347
Contacts (for 25 Contact) (Supplied in packs of 10)	**Solder**	**Crimp**
Plugs	SA3180/1	SA3180
Sockets	SA 3179/1	SA3179

Assembly Tools



PNo 14025 and 13027

- Crimp Tools for 3, 9,12 and 25 Contact crimp contacts
- Insertion/Extraction Tool for 25 Contact contacts

Tools

Crimp Tool (25 Contact)	PNo. 14025/1AMP
Crimp Tool (12 Contact)	PNo. 14025
Positioner (12 Contact)	PNo. 14025/5AMP
Crimp Tool (9 Contact)	PNo. 13826
Crimp Tool (3 Contact)	PNo. 14232
3 Contact positioner	PNo. 14232/1
Insertion/Extraction Tool (25 Contact)	PNo. 13027
Insertion/Extraction Tool (12 Contact)	PNo. 13027/1
Insertion/Extraction Tool (3 Contact)	PNo. 13027/3

Cable Glands



12023/1, 12023/2 & SA3253

- Pack of alternative cable glands to suit cables from 3.5 to 9mm dia.

Cable Acceptance - Alternatives

Gland Diameter	Gland Part No.	Gland Colour	Additional Suffix
6-8mm	12023	Black	Standard for 2-12 Contact
3.5-5mm	SA3426	Grey	Suffix /04†
5-7mm	12023/1	White	Suffix /05
7-9mm	12023/2	Yellow	Suffix /07*
Gland Pack	SA3253	Pack of 3 glands to suit cables 3.5-5mm, 5-7mm & 7-9mm dia†	

*Note: 7-9mm gland standard for 25 way, no suffix required.
†Includes additional black gland cage for 3.5-5mm dia. cable range.
To order connector with alternative cable gland add suffix to part no. e.g. PX0731/P/07 = PX0731 3 Plug connector with cable gland to suit 7-9mm dia. cable.

Cable Acceptance - Standard as supplied

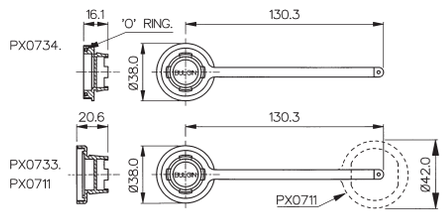
No. Contacts	Cable Diameter or Type
2-12 Contact	6-8mm
25 Contact	7-9mm

Sealing Cap and Assembling Tool



PX0734 & PX0733

- Maintains IP68 Rating of Unmated Connectors
- Can be used to remove Inserts
- PX0734 for Flex Cable Connector
- PX0733 for Inline, Front Panel, Bulkhead and Flange mount connectors
- PX0711 for PCB and Rear Panel Mount connectors

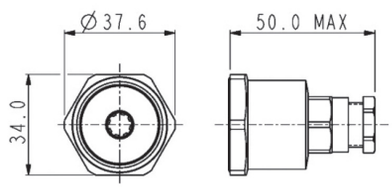


Rear of Panel Back Shell



PX0799

- Provides environmental seal to rear of panel
- Standard cable acceptance 6-8mm, 3.5 to 9mm with alternative glands
- For use on front panel mounting connectors
- Replaces mounting nut in panel connector

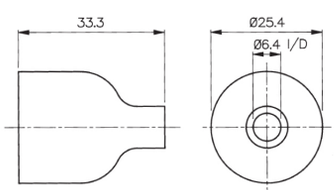


PVC Insulation Boot



PNo. 12855

- Shock protection for rear of connector
- Flammability Rating UL94V-0
- Fits Front Panel Mount Versions only

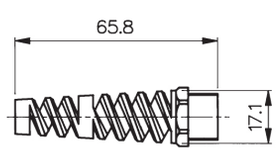


Cable Support Accessory



PNo. 12237

- Gives Extra Support to the Cable
- Suitable for 5-7mm and 7-9mm Cable Diameters



PX07XX / X / XX / XX X

Body Styles

PX0736
PX0731
PX0776
PX0748
PX0739
PX0745
PX0728
PX0794
PX0820
PX0737
PX0732
PX0778
PX0749
PX0740
PX0746
PX0729
PX0795
PX0821
PX0735
PX0730
PX0779
PX0747
PX0738
PX0744
PX0727
PX0796
PX0822
PX0709
PX0708
PX0707
PX0757
PX0756
PX0787
PX0761
PX0758
PX0760
PX0762
PX0798
PX0823
PX0764
PX0765
PX0781
PX0766
PX0767
PX0768
PX0769
PX0797
PX0824

Contacts Type

P = Plug
S = Socket

Cable Acceptance or PCB/Rear Panel Mounting

Flex Cable and Inline Connectors cable acceptance use:
Blank = 6-8mm (Black) standard for 2-12 Contact

04 = 3.5-5mm (Grey)
05 = 5-7mm (White)
07 = 7-9mm (Yellow)
(standard for 25 way, no suffix required)

PCB (PX0707) and Rear Panel Mount connectors (PX0708 and PX0709) use:

02 = 2 Contact
03 = 3 Contact
04 = 4 Contact
06 = 6 Contact
07 = 7 Contact
09 = 9 Contact
12 = 12 Contact
25 = 25 Contact

Front Panel, Bulkhead and Flange Mount - not required:

Insert/Gland Nut Colour

Blank = Black
BL = Blue
GN = Green
GY = Grey

LG = Light Grey
RD = Red
WH = White
YL = Yellow

Insert/Gland Nut Colour Combination

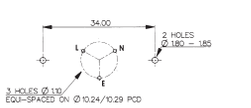
1 = Insert and Gland Nut Coloured
2 = Insert only Coloured

Examples:

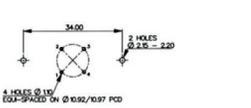
PX0707/P/06= PCB Panel connector, Plug contacts, 6 Contact
PX0731/S = Flex Cable connector, socket contacts, 3 Contact
PX0732/P/07/BL2 = Inline Cable connector, Plug contacts, 3 Contact, 7-9mm cable acceptance, blue insert

PCB Layouts

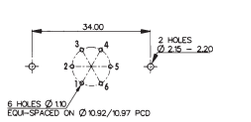
Sockets
Contact Nos viewed from rear of panel



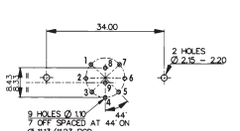
PX0707/S/03



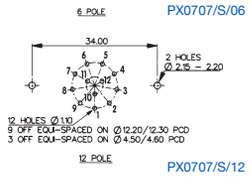
PX0707/S/04



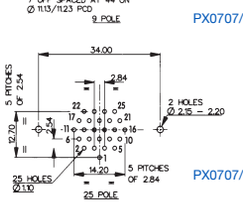
PX0707/S/06



PX0707/S/09

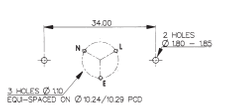


PX0707/S/12

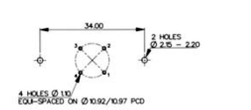


PX0707/S/25

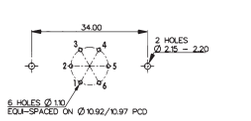
Plugs
Contact Nos viewed from rear panel rear of panel



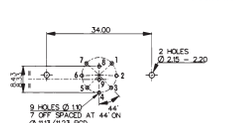
PX0707/P/03



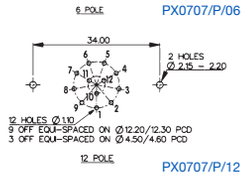
PX0707/P/04



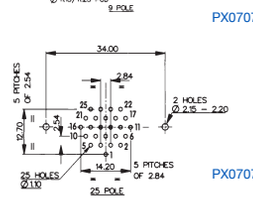
PX0707/P/06



PX0707/P/09



PX0707/P/12



PX0707/P/25

Electrical:

No. Contacts:	2, 3	4	6, 7	9	12	25
Current Rating:						
VDE	12A	10A	5A	5A	5A	1A
UL	12A	10A	5A	5A	5A	1A
Voltage Rating (AC/DC):	277V	277V	277V	150V	50V	50V

Contact Resistance: <10mΩ (2-9 Contact)
<5mΩ (12 Contact)
<5mΩ (25 Contact)

Insulation Resistance: $>10^4$MΩ @ 500V DC (2-9 Contact)

AC Breakdown voltage: 4kV Contact - Contact (2-9 Contact)
6kV Contacts - Panel (Low Profile Flange and Panel Types – 2-9 Contact)
7.5kV Contacts - Panel (Other Types – 2-9 Contact)

Operating Temp. Range:
–20°C to +70°C

Approvals:

UL (Underwriters Laboratory)	E93288 and E337507
VDE (Verband der Elektrotechnik)	40023148

Overmoulded cable assemblies approvals to customer requirements.

Material:

Body Mouldings:	Glass Filled Polyamide UL94HB
Inserts (2-25 Contact):	Polyamide UL94V-0
PX0707	Polyamide UL94V-0
PX0708	Polyamide UL94V-0
PX0709	Polyamide UL94V-0
Overmoulded types:	
Body Mouldings:	Polyurethane
Flammability Rating:	UL94V-HB
Contacts:	
Screw Terminal:	Brass, Nickel Plated
Crimp (9 Contact):	Copper Alloy, Tin Plated
Crimp/Solder (12+25 Contact):	Copper Alloy, Gold Plated (0.1µm on Nickel)
BNC inserts:	Brass, Nickel Plated
BNC contacts:	Brass, Silver Plated
RoHS	Compliant

Mechanical:

Sealing:	IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k IP68, EN 60529:1992+A2:2013 Tested @ 1.054kg/sq.cm. (15lb/sq.in.) 10m depth for 2 weeks. EN 60529:1992 +A2:2013 Tested @ 9.84kg/sq.cm. (140lb/sq.in.) 100m depth for 12 hours.
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Cable Acceptance:	
2-12 Contact - standard gland:	6-8mm dia
2-12 Contact - alternative glands:	3.5-9mm dia
25 Contact - standard gland:	7-9mm dim
25 Contact - alternative glands:	3.5-7mm dim
Contact Accommodation:	
2 and 3 Contact screw terminals:	2.5-4mm2 (12-14AWG)
3 Contact crimp:	1-1.5mm2 (16-17AWG)
4, 6 and 7 Contact:	1-1.5mm2 (17-16AWG)
9 Contact:	0.14-0.25mm2 (24-26AWG)
12 Contact:	0.25-0.34mm2 (22-24AWG)
25 Contact:	0.14-0.25mm2 (24-26AWG)
Terminations:	
2-7 Contact:	Screw Terminals
3 Contact:	Screw Terminals & Crimp
9 Contact:	Crimp Contacts
12 Contact:	Crimp & Solder Contacts
25 Contact:	Crimp & Solder Contacts
Tightening Torques:	
Flex Mounting/Inline:	Gland Nut: 1.13Nm (10lbf.in.)
Panel Mounting:	Rear Fixing Nut: 1.7Nm (15lbf.in.) Front Fixing Nut: 1.4Nm (12.4lbf.in.)
Surface/Bulkhead and Low Profile Flange Mounting:	4 Fixing Screws (using washers supplied) 0.34Nm (3lbf.in.)
Sealings Caps/Locking Ring:	1.13Nm (10lbf.in.)
Rear thread, Front Panel Connector:	M27 x 1.0-6H
Thread, Front Panel Connector:	M35 x 1.0-6H

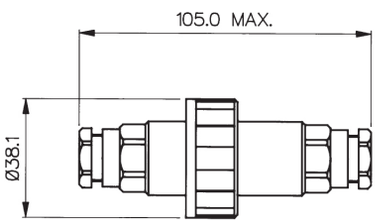
Sealed Cable Joiner

Cable Joiner



PX0777

- IP68 & IP69k Rating
- For Sealed Inline Connections
- Standard Cable Acceptance 6-8mm
- Cable Range 3.5-9mm (using alternative glands)
- Supplied with 4, 6 or 8 way Terminal Block
- Available Moulded in Black or Orange



Specifications	PX0777	PX0777/4POLE, 6POLE, 8POLE
Rating:	16A, 250V AC	10A, 250V AC
Wire Termination:	3 way Terminal Block	4, 6, 8 way Terminal Block
Conductor Accommodation:	2.5mm² max (14AWG)	1.5mm² max (16AWG)
Cable Acceptance:	6-8mm dia alternative glands available on request	6-8mm dia alternative glands available on request
Material:	Glass Filled Polyamide UL94-HB	Glass Filled Polyamide UL94-V0
Sealing:	IP68 to BSEN 60529 : 1992 1.054kg/sq.cm. (15lbs/sq.in.) 10m depth for 2 weeks	IP68 to BSEN 60529 : 1992 1.054kg/sq.cm. (15lbs/sq.in.) 10m depth for 2 weeks
	IP69k to DIN 40050-9	IP69k to DIN 40050-9
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Operating Temp. Range:	–20°C to +70°C	–20°C to +70°C
Colour:	Black Orange (Add /OR to PNo.)	Black Orange (Add /OR to PNo.)
RoHS	Compliant	Compliant

POLE Configurations







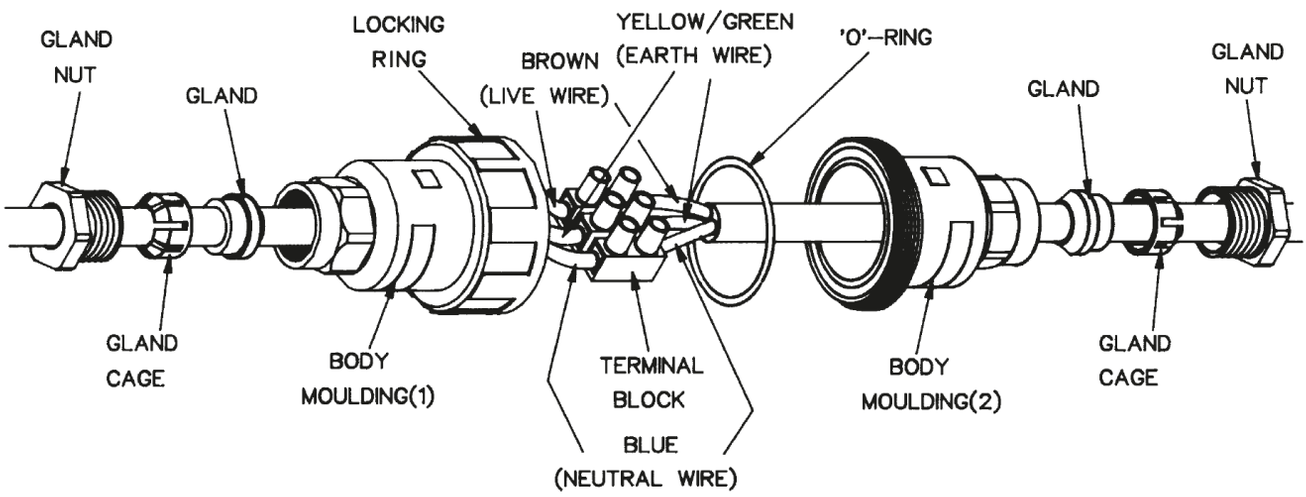
Examples

PX0777 – 3 Contact 6-8mm Black.
PX0777/04 – 3 Contact 3.5-5.0mm Black.
PX0777/04/OR –3 Contact 3.5-5.0mm Orange.

PX0777/4POLE – 4 Contact 6-8mm Black.
PX0777/6POLE/04 – 6 Contact 3.5-5.0mm Black.
PX0777/8POLE/04/OR – 8 Contact 3.5-5.0mm Orange.

PX0777 /	XPOLE /	XX /	XX
Part No	Blank = 3 Contact 4POLE = 4 Contact 6POLE = 6 Contact 8POLE = 8 Contact	Blank = 6-8mm 04 = 3.5-5mm 05 = 5-7mm 07 = 7-9mm	Blank = Black OR = Orange

PX0777 WIRING AND ASSEMBLY INSTRUCTIONS

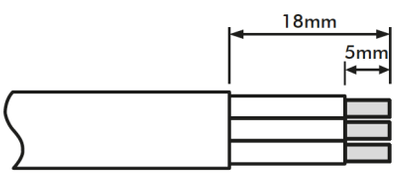


1. Strip wires to dimensions shown.

2. Assemble components parts onto cable as shown, then connect wires to terminal block.

   ENSURING WIRES CONNECTED INTO ONE SIDE OF TERMINAL BLOCK MATCH WIRES CONNECTED INTO THE OTHER SIDE.

   i.e. Brown to Brown (Live)
   Blue to Blue (Neutral)
   Green/Yellow to Green/Yellow (Earth)



Wire stripping details

3. Bring the two body mouldings together ensuring the 'O' ring is correctly located in groove then lock together with locking ring, ensure ring is fully tightened.

   Put gland cage over gland and push fully home into its appropriate body then fully tighten gland nuts.

4. To ensure a good seal, all surfaces must be completely free of dust, grease or any other contamination.

THIS CABLE CONNECTOR IS SUITABLE FOR USE WITH LOADS NOTEXCEEDING 16 AMPS USING 1.5mm2 CABLE

ALWAYS USE WITH SUPPLY PROTECTED BY AN RCD (RESIDUAL CABLE DEVICE), IF IN DOUBT CONSULT A QUALIFIED ELECTRICIAN.

DANGER

DISCONNECT MAINS SUPPLY BEFORE DISMANTLING CONNECTOR

Mini Buccaneer



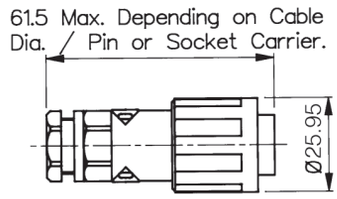
- Water and dustproof to IP68 when mated
- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- 2, 3, 4 or 6 Contact screw terminal inserts
- 3 or 8 Contact solder or crimp inserts
- 5 body styles, Flex, Inline, Panel (2 styles), Panel Side Entry
- 50Ω or 75Ω BNC (Bayonet Neill–Concelman) inserts
- 5A, 380V AC 3 & 8 way solder/crimp terminals
- 10A, 250V AC 2 & 3 way screw terminals
- 6A, 250V AC 4 way screw terminal
- 3A, 250V AC 6 way screw terminals
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- Plug or socket connection in each body style
- Cable range from 3.5mm - 9mm
- Diameter over coupling ring 26mm
- Positive locating keyways - cannot be mis-mated
- Sealing caps available to maintain IP68 rating of unmated connectors
- Flammability rating UL94V-0 material
- Leading earth Plug is on 3, 4 & 6 Contact screw terminal versions only
- Compact design
- Easy assembly - no special tools required on screw terminal versions
- UL approval

Flex Cable Connector Body



PX0800 - shown with insert

- PX0800 Connector body
- Mates with Inline or Panel Mounting versions
- Screw locking ring
- Suitable for Plug or Socket inserts
- Cable Acceptance 3.5-9mm (Standard 5-7mm)
- Contact inserts supplied separately

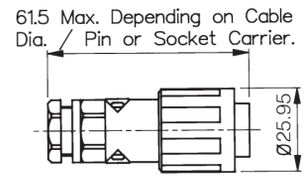


Inline Cable Connector Body



PX0801 - shown with insert

- PX0801 Connector body
- Mates with PX0800 - Flex Cable connector
- Suitable for Plug or Socket inserts
- Cable Acceptance 3.5-9mm (Standard 5-7mm)
- Contact inserts supplied separately

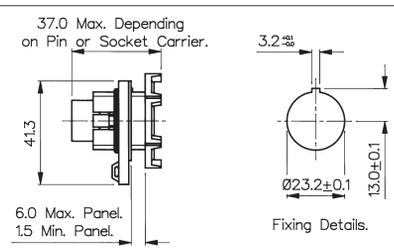


Rear Panel Mounting Body



PX0802 - shown with insert

- PX0802 Connector body
- Mates with PX0800 - Flex Cable connector
- Single hole fixing
- Suitable for Plug or Socket inserts
- Contact inserts supplied separately

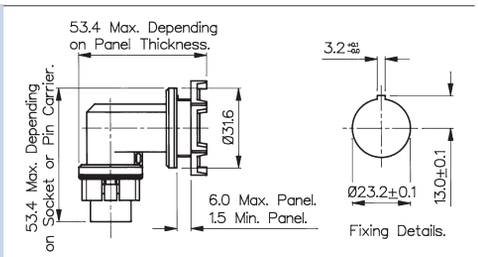


Panel Mounting Right Angle Body



PX0803 - shown with insert

- PX0803 Connector body
- Mates with PX0800 - Flex Cable connector
- Right angle cable entry
- Single hole fixing
- Suitable for Plug or Socket inserts
- Contact inserts supplied separately

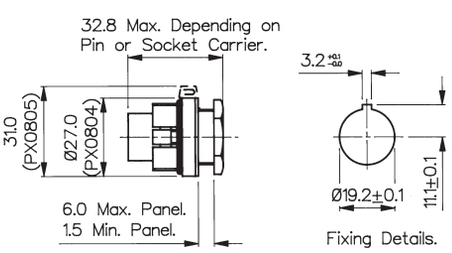


Rear Panel Mounting Body



PX0805 - shown with insert

- PX0804 and PX0805 Connector bodies
- Mates with PX0800 - Flex Cable connector
- PX0804 without sealing cap retaining clip, PX0805 with sealing cap retaining clip
- Single hole fixing
- Suitable for Plug or Socket inserts
- Contact inserts supplied separately



Screw Terminal Inserts



- 2, 3, 4 and 6 Contacts
- Fits all Body Styles
- Leading Earth Plug on 3, 4 and 6 Contact inserts
- Nickel Plated contacts

Screw Terminal Inserts - fits all body styles

No. Contacts	Sockets	Plugs
2	SA3319	SA3320
3	SA3229	SA3230
4	SA3242	SA3241
6	SA3244	SA3243

Contact Carrier Inserts



Inserts shown with contacts fitted

- For Solder or Crimp Contacts
- 3 or 8 Plug
- Fits all Body Styles
- Contacts Supplied Separately

Solder & Crimp Contact Carrier Inserts - fit all body styles.

No. Contacts	Solder	Colour	Crimp	Colour
3 Plug	12734/3/1	Black	12734/3	Grey
3 Socket	12735/3/1	Black	12735/3	Grey
8 Plug	12734/1	Black	12734	Grey
8 Socket	12735/1	Black	12735	Grey

Contacts, Polarising/Blanking Plugs



- Gold Plated contacts
- Solder or Crimp
- Polarising/Blanking Plugs

Contacts - Solder & Crimp - for contact carrier inserts

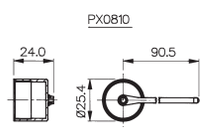
Contacts (Supplied in packs of 10)	Solder	Crimp
Plugs	SA3148/1	SA3148
Sockets	SA3149/1	SA3149
Polarising/Blanking Plugs	SA3147	
Contact Insertion Tool: Must be used to load contacts into inserts.	SA3150	
Crimping Tool	SA2800	

Sealing Caps



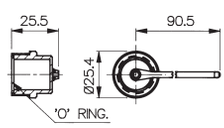
To maintain IP rating

PX0810



PX0810
Fits PX0801, PX0802, PX0803, PX0804 & PX0805. Ensure “O” Ring is in place on main body.

PX0811.



PX0811
Fits PX0800. Ensure “O” Ring is in place in cap.

Mini Buccaneer Contact Inserts and Accessories

Specifications

Electrical	Solder/Crimp Terminals	Screw Terminals			BNC
No Contacts:	3, 8	2, 3	4	6	
Current Rating:	5A	10A	6A	3A	
Voltage Rating:	380V AC	250V AC	250V AC	250V AC	
Contact Resistance:	<5mΩ				
Insulation Resistance:	>10^6MΩ @ 500V DC				
Voltage Proof:	2kV @ 50Hz				
Operating Temp. Range:	–20°C to +70°C				

Approvals:
E214972

Materials	Solder/Crimp Terminals	Screw Terminals	BNC
Body Mouldings:	Polyamide UL94V-0	Polyamide UL94V-0	
Inserts:	Polyamide UL94V-0	Polyamide UL94V-0	
Contacts:	Copper Alloy, Gold Plated (0.1µm) on Nickel	Brass, Nickel Plated	Brass, Silver Plated.
O Rings:	Nitrile		
RoHS	Compliant	Compliant	Compliant

Mechanical	Solder/Crimp Terminals	Screw Terminals	BNC
Sealing:	Protection Classification IP68, EN 60529:1992+A2:2013 Tested @ 1.054kg/sq.cm. (15lb/sq.in.) 10m depth for 2 weeks.		
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1		
Cable Acceptance	5-7.00mm dia - standard gland 3.5-9.00mm dia - alternative glands		
Contact Accommodation:	0.2 - 0.5mm2 (20 - 24 AWG)	1mm² max (18 AWG)	50Ω: RG58/CU, URM43, URM76 75Ω: URM70
Insertion Force (typical):	3 way: 5N (1.1lbf) 8 way: 14N (3.1lbf)	3 way: 45N (10lbf) 4 way: 50N (11lbf) 6 way: 140N (31lbf)	
Withdrawal Force (typical):	3 way: 3N (0.66lbf) 8 way: 12N (2.6lbf)	3 way: 32N (7lbf) 4 way: 40N (9lbf) 6 way: 150N (34lbf)	

Tightening Torques	
Gland Nut, PX0800, 801:	1.13Nm (10lbf in)
Rear Nut, PX0802, 803, 804, 805:	0.7Nm min, 1.7Nm max (6.2lbf in min, 15lbf in max)
Sealing Cap, PX0810, 811:	0.23Nm min, 1.13Nm max (2lbf in min, 10lbf in max)

How to order

- Choose body type, check cable diameter and sealing gland size.
- Determine contact carrier inserts. Choose number of Contacts, and type of contacts (solder, crimp, screw terminal or BNC).
- Choose Plugs or sockets. Solder and crimp contacts are supplied separately in packs of ten.
- Choose polarising/blanking Plugs. If required for solder/crimp contact inserts. Supplied in packs of ten.
- Is an insertion tool required (for solder or crimp contacts)?
- Is a crimp tool required?
- Is a sealing cap required?

Cable Glands

Cable gland for 5-7mm fitted as standard.
BNC Insert Kit includes gland & washer to fit coax cable.

Cable Diameter	Gland Part No.	Gland Colour	Additional Suffix
5-7mm	12023/1	White	Fitted as standard
3.5-5mm	SA3426	Grey	Suffix /04†
6-8mm	12023	Black	Suffix /06
7-9mm	12023/2	Yellow	Suffix /07
Gland Pack	PX0812	Pack of 3 glands to suit cables 3.5-5mm, 6-8mm, 7-9mm dia†	

To order body with alternative cable gland add suffix to part no. e.g.
PX0800/06 = PX0800 body with cable gland to suit 6-8mm dia. cable.
†Includes additional black gland cage for 3.5-5mm dia. cable range.


2 Contact
(10 Amp)

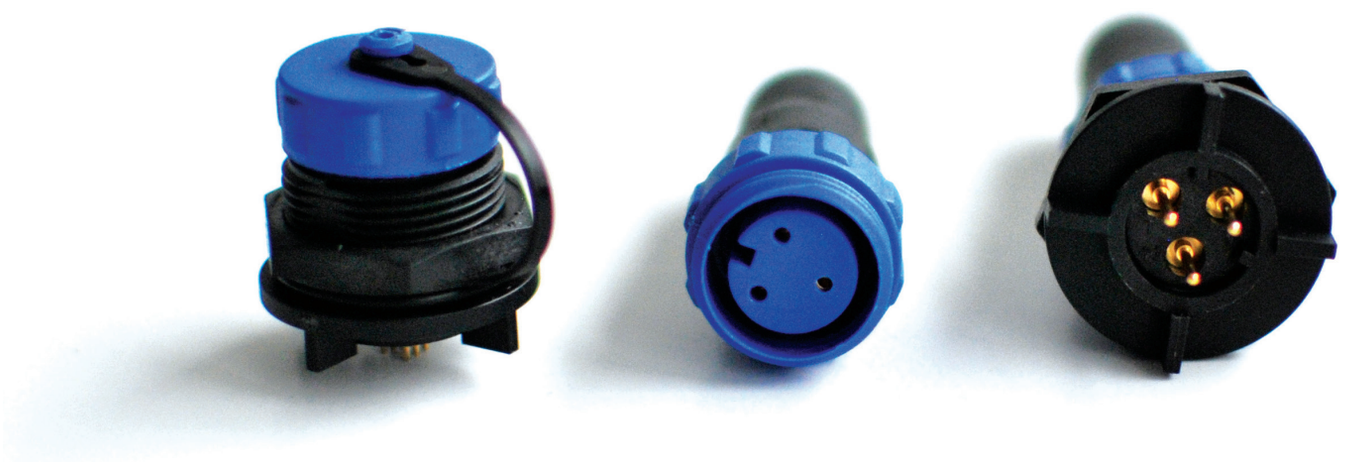

3 Contact
(10 Amp)


4 Contact
(6 Amp)


6 Contact
(3 Amp)


8 Contact
(5 Amp)

400 Series Buccaneer



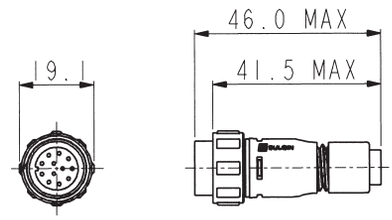
- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- 2 and 3 Contact - 8A, 250V rating
- 4, 6 and 8 Contact - 5A, 125V rating
- 10 and 12 Contact - 1A, 50V rating
- 2.5mm contact engagement for electrical integrity ‘Scoop proof’ contacts
- Contact inserts are part of body moulding
- Cable range from 3 to 7mm
- Overall length (flex + Inline) 80mm
- Gold plated contacts
- Diameter over coupling ring 19.1mm
- Pre-wired, overmoulded cable assemblies
- Flex, Inline, Front Panel, Rear Panel and PCB mounting body styles
- Plug and Socket versions in all body styles
- Flame Retardant moulding material - Polyamide UL94-V0
- Contacts supplied separately (except PCB versions)
- Sealing caps available to maintain IP68 rating
- Secure sealing system
- Crimp and solder contacts
- PCB mounting connector supplied with contacts pre-loaded
- Front and rear panel mounting panel connectors
- VDE and cULus approvals
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- Smart options available with EEPROM memory chip

Flex Cable Connector



PX0410

- Mates with Inline or Panel mounting versions PX0401, PX0411, PX0412 & PX0413
- Plug or socket
- 2, 3, 4, 6, 8, 10 or 12 Contact
- Screw locking ring
- Contacts supplied separately

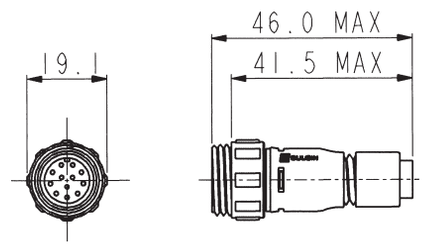


Inline Cable Connector



PX0411

- Mates with Flex Cable connectors PX0400, PX0402 & PX0410
- Plug or socket
- 2, 3, 4, 6, 8, 10 or 12 Contact
- For Inline cable connection
- Contacts supplied separately

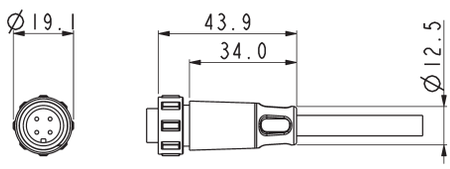


Pre Wired Flex Cable Connector



PX0400

- Overmoulded Flex connector for pre-wired cable assemblies
- Plug or socket
- Cable range 2.5 -9.0mm O/D
- 2, 3, 4, 6, 8, 10 or 12 Contact
- Mates with PX0401 & PX0411 Inline connectors and PX0412 & PX0413 panel mounting connectors

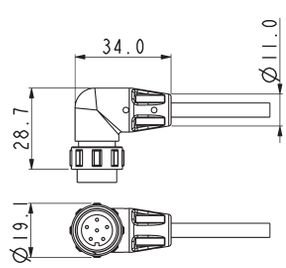


Pre Wired Flex Cable Connector



PX0402

- Right-angled overmoulded
- Flex connector for pre-wired cable assemblies
- Plug or socket
- Cable range 2.5 -9.0mm O/D
- 2, 3, 4, 6, 8, 10 or 12 Contact
- Mates with PX0401 & PX0411 Inline connectors and PX0412 & PX0413 panel mounting connectors

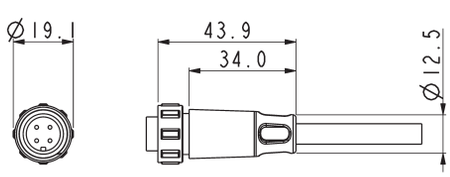


Smart Connector



PXS410

- Overmoulded pre-wired sealed connector
- 4, 6, 8, 10, 12 Contact
- Embedded memory chip through 1 wire EEPROM
- Mates with PX0401 & PX0411 Inline connectors and PX0412 & PX0413 panel mounting connectors

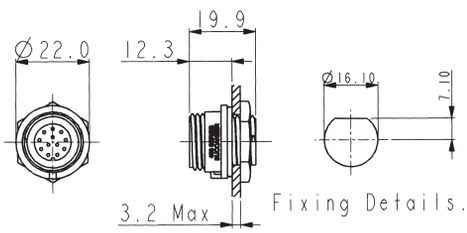


Front Panel Mounting Connector



PX0412

- Mates with Flex Cable connectors PX0410, PX0400 & PX0402
- Single hole fixing
- Contacts supplied separately
- 2, 3, 4, 6, 8, 10 or 12 Contact

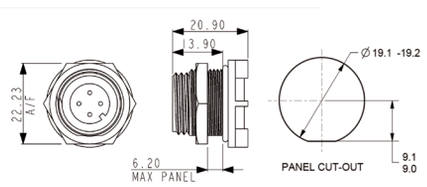


Rear Panel Mounting Connector



PX0413/XXX

- Mates with Flex Cable connector PX0410, PX0400 & PX0402
- Single hole fixing
- Contacts supplied separately
- 2, 3, 4, 6, 8, 10 or 12 Contact

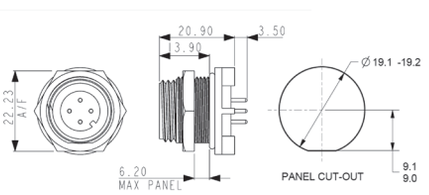


PCB Mounting Connector



PX0413/XXX/PC

- Mates with Flex Cable connector PX0410, PX0400 & PX0402
- PCB Rear Panel mounting
- Straight PC spills
- Supplied with pre-loaded gold plated contacts
- 2, 3, 4, 6, 8, 10 or 12 Contact



Sealing Caps



PX0480 PX0480/1 PX0481 PX0484

- Maintains IP68 Rating of Unmated Connectors
- PX0480: Fits PX0412 (panel mounting)
- PX0480/1: Fits PX0401 & PX0411 (Inline)
- PX0481: Fits PX0400, PX0402 & PX0410 (flex connector)
- PX0484: Fits PX0413 (PCB and rear panel mount)

Gland Packs

Part No	Description
PX0482	Pack of 4 pairs cable glands and collets to suit cables from 3.0 to 5.0mm diameter.
PX0483	Pack of 4 pairs cable glands and collets to suit cables from 5.0 to 7.0mm diameter.

Crimp Contacts

Contact	Current Rating	Plug Part No.	Socket Part No.	Pack Qty	Cable Acceptance (dia)
2, 3	8A	SA3350	SA3349	10	20 - 24 AWG
4, 6, 8	5A	SA3348	SA3347	10	22 - 26 AWG
10, 12	1A	SA3180	SA3179	10	24 - 28 AWG

Solder Contacts

Contact	Current Rating	Plug Part No.	Socket Part No.	Pack Qty	Cable Acceptance (dia)
2, 3	8A	SA3350/1	SA3349/1	10	20 - 24 AWG
4, 6, 8	5A	SA3348/1	SA3347/1	10	22 - 26 AWG
10, 12	1A	SA3180/1	SA3179/1	10	24 - 28 AWG

Insertion / Extraction

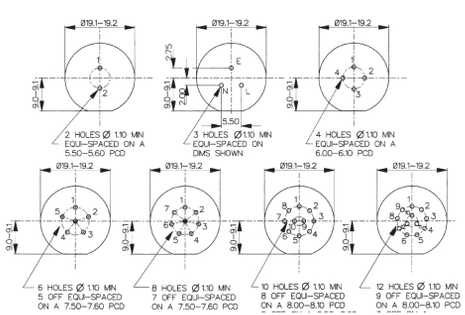
	Contacts	Contact Rating	Colour	Part No
Insertion/Extraction Tool	2,3	8A	Blue	13027/2
Insertion/Extraction Tool	4,6,8	5A	Red	13027/1
Insertion/Extraction Tool	10,12	1A	Green	13027

Crimp tools

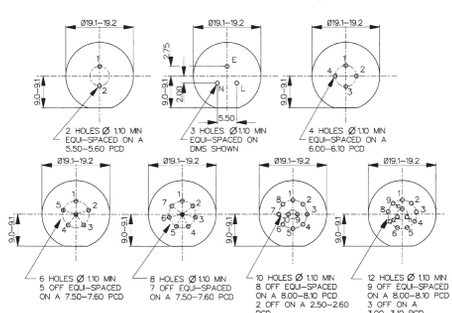
	Contacts	Contact Rating	Colour	Part No
Positioner	2,3	8A	Blue	14025/8AMP
Positioner	4,6,8	5A	Red	14025/5AMP
Positioner	10,12	1A	Green	14025/1AMP
8 Indent Crimp Tool for use with positioners				14025

PX0413 PCB Contact Layout

Sockets
Contact numbers viewed from rear of panel



Plugs
Contact numbers viewed from rear of panel





2 Contact (8 Amp) | 3 Contact (8 Amp) | 4 Contact (5 Amp) | 6 Contact (5 Amp) | 8 Contact (5 Amp) | 10 Contact (1 Amp) | 12 Contact (1 Amp)

Electrical:

No. Contacts:	2, 3	4, 6, 8	10, 12
Current Rating:	8A	5A	1A
Voltage Rating:	250V AC/DC	125V AC/DC	50V AC/DC
Contact Resistance:	<5mΩ		
Insulation Resistance:	$>10^6$MΩ (@ 500V DC)		
AC Breakdown voltage:	2.5kV		
Cycles:	>1000		

Operating Temperature:
Flex and panel types –40°C to +80°C
Overmoulded –20°C to +60°C

Approvals:
cULus (Underwriters Laboratory) E214972
VDE (Verband der Elektrotechnik) 40002226

Overmoulded cable assemblies approvals to customer requirements.

Material:

Flex and panel types:
Body Mouldings: Polyamide
Flammability Rating: UL94V-0
UV Resistance: To EN 50021:1999

Overmoulded types:
Body Mouldings: Polyurethane
Flammability Rating: UL94V-HB

Contacts: Copper alloy, Gold plated

O Rings: Nitrile

Panel Sealing O Ring: Nitrile

RoHS Compliant

Smart Connector EEPROM:

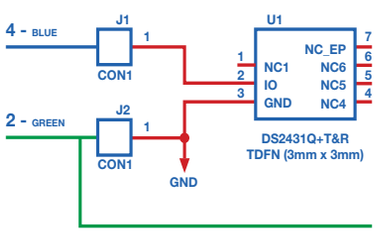
1024 - Bit Memory

1 - Wire

Can be Write Protected

Manufacturer - Maxim Intergrated

Part Number - 0S2431



Mechanical:

Sealing: IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k

IP68, EN60529:1992+A2:2013 tested @ 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks

Salt Mist: EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Cable Acceptance: 3.0 - 7.0mm

Contact Accommodation: 2, 3 Contact, 20 - 24 AWG
4, 6, 8 Contact, 22 - 26 AWG
10, 12 Contact, 24 - 28 AWG

Termination: Crimp, solder and PCB

Insertion/Withdrawal Force:

No. Contacts:	2	3	4	6	8	10	12
Insertion Force (typ):	19N	25N	27N	27N	28N	55N	62N
Withdrawal Force (typ):	12N	17N	17N	21N	22N	25N	29N

Tightening Torques:
Panel mount (PX0412)
Rear fixing nut: 1.0-1.1Nm (9lbf.in.)
Panel mount (PX0413)
Front fixing nut: 1.0-1.1Nm (9lbf.in.)

Cable Retention force:
3.0mm dia 60N
4.0 to 7.0mm dia 80N

Rear panel thread PX0412: M16x1.5

Panel thread PX0413: 18.97x26TPI Whitworth form to BS84 med fit

Dimensions:

Overall dimensions of connectors when mated together

Flex + Inline 80mm

Dia. over coupling ring 19.1mm

Dia. over coupling ring

Plug	/	Wire Colour
1		Red
2		Green
3		Yellow
4		Blue
5		White
6		Black
7		Brown
8		Violet
9		Orange
10		Pink
11		Turqouise
12		Grey

Standard:

PX041X / XX X / XXXX

Body Styles

PX0410 = Flex body
PX0411 = Inline body
PX0412 = Front panel mounting body
PX0413 = Rear panel/PCB mounting body

Number of Contacts

02
03
04
06
08
10
12

Contact Type

P = Plug,
S = Socket

For PX0410 and PX0411 cable connectors - Cable Entry Size:

3035 = 3.0 - 3.5mm (Light Grey)
3540 = 3.5 - 4.0mm (Grey)
4045 = 4.0 - 4.5mm (Green)
4550 = 4.5 - 5.0mm (Red)

5055 = 5.0 - 5.5mm (Yellow)
5560 = 5.5 - 6.0mm (Blue)
6065 = 6.0 - 6.5mm (White)
6570 = 6.5 - 7.0mm (Black)

Cable gland and collet supplied in colour coded pairs.

For PX0413 PCB/Rear Panel Mount:
PC = Pre-loaded PC Plugs
Blank = no Plugs supplied

For PX0412 Front Panel Mount:
Suffix not required - leave blank

Examples:

PX0410/10S/4045 = Flex cable connector, 10 socket contacts with gland and collet for cables between 4.0 and 4.5mm diameter (supplied less contacts).
PX0412/08P = Front panel mounting connector, 8 Plug contacts (supplied less contacts.)
PX0413/06P = Rear panel mounting connector, for 6 Plug contacts (supplied less contacts).
PX0413/04P/PC = Rear panel/PCB connector, 4 Plug contacts, PCB mounting (supplied with contacts loaded).

Pre Wired Variation:

PX040X / XXX / XX / X

Body Styles

PX0400 = Pre Wired Flex Cable Connector
PX0402 = Pre Wired Flex Cable Connector - Right angle

Length

001 = 1m
002 = 2m
003 = 3m
...
015 = 15m

Number of Contacts

02
03
04
06
08
12

Contact Type

P = Plug
S = Socket

Smart:

PXS410 / XX / XX / X

Body Styles

PXS410 = Flex body

Cable length

02 = 2m
03 = 3m
05 = 5m
10 = 10m

Number of Contacts

04
06
08
10
12

Contact Type

P = Plug
S = Socket

Examples:

PXS410/02/04/P = Smart flex cable connector, 2m cable to free end, 4 Plug contact

4000 Series Buccaneer



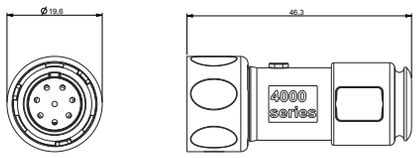
- Sealed to IP68 when mated
- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- 2, 3, 4, 6, 8, 10 & 12 Contact configuration
- Power ratings up to 13A, 600V
- Cable acceptance range from 3 to 7mm
- Diameter over coupling ring 19.8mm
- Flex, Inline, Pre-Wired, Panel- and PCB-mounting body styles
- Colour coded O-rings & washers for easy identificaiton purposes
- Plug and Socket versions in all body styles
- Flame Retardant moulding material - Polybutylene Terephthalate/Polycarbonate (PBT/PC) UL94-V0
- Contacts supplied separately (except pre-wired and PCB versions)
- Sealing caps available to maintain IP68 rating
- Crimp and solder contacts
- cULus and VDE approvals
- EN60068-2-64 Vibration Resistance

Flex Cable Connector



PXP4010

- Mates with Inline or Panel mounting versions PXP4001, PXP4003, PXP4011, PXP4012, PXP4013
- Plug or socket
- 2, 3, 4, 6, 8, 10 & 12 Contacts
- ¼ turn locking ring
- Contacts supplied separately

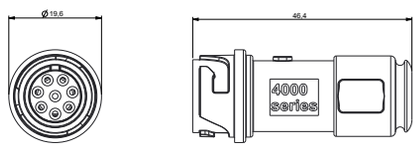


Inline Cable Connector



PXP4011

- Mates with Flex Cable connectors PXP4000, PXP4002, PXP4010
- Plug or socket
- 2, 3, 4, 6, 8, 10 & 12 Contacts
- For Inline cable connection
- Contacts supplied separately

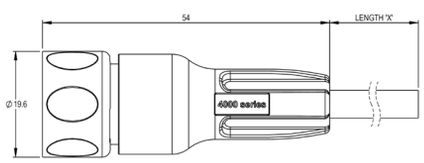


Pre-Wired Flex Cable Connector



PXP4000

- Mates with Inline or Panel mounting versions PXP4001, PXP4003, PXP4011, PXP4012, PXP4013
- Plug or socket
- 2, 3, 4, 6, 8, 10 & 12 Contacts
- ¼ turn locking ring
- PVC Cable Jacket

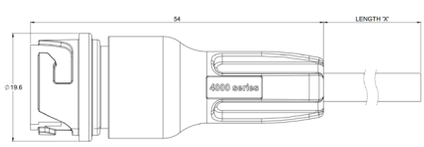


Pre-Wired Inline Cable Connector



PXP4001

- Mates with Flex versions PXP4000, PXP4002, PXP4010
- Plug or socket
- 2, 3, 4, 6, 8, 10 & 12 Contacts
- For inline cable connection
- PVC Cable Jacket

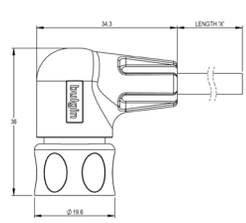


Pre-Wired Flex Cable Connector



PXP4002

- Mates with Inline or Panel mounting versions PXP4001, PXP4003, PXP4011, PXP4012, PXP4013
- Plug or socket
- 2, 3, 4, 6, 8, 10 & 12 Contacts
- ¼ turn locking ring
- PVC Cable Jacket

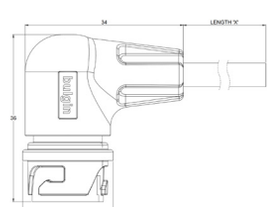


Pre-Wired Inline Cable Connector



PXP4003

- Mates with Flex versions PXP4000, PXP4002, PXP4010
- Plug or socket
- 2, 3, 4, 6, 8, 10 & 12 Contacts
- For inline cable connection
- PVC Cable Jacket

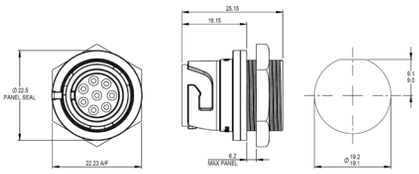


Front Panel Mounting Connector
(locking nut included)



PXP4012

- Mates with Flex Cable connectors PXP4010, PXP4000, PXP4002
- Plug or socket
- 2, 3, 4, 6, 8, 10 & 12 Contacts
- Single hole fixing
- Contacts supplied separately

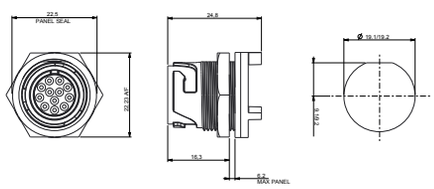


Rear Panel Mounting Connector
(locking nut included)



PXP4013

- Mates with Flex Cable connectors PXP4010, PXP4000, PXP4002
- Plug or socket
- 2, 3, 4, 6, 8, 10 & 12 Contacts
- Single hole fixing
- Contacts supplied separately

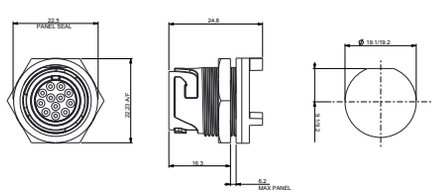


PCB Mounting Connector
(locking nut included)



PXP4013/XXX/PC

- Mates with Flex Cable connectors PXP4010, PXP4000, PXP4002
- Plug or socket
- 2, 3, 4, 6, 8, 10 & 12 Contacts
- PCB Rear Panel mounting
- Straight PC spills
- Supplied with pre-loaded gold plated contacts



Sealing Caps



PXP4081 PXP4082 PXP4083

- Maintains IP68 sealed rating of unmated connectors

Part no.	Description
PXP4081	Sealing cap for use with PXP4010, PXP4000, PXP4002
PXP4082	Sealing cap for use with PXP4011, PXP4001, PXP4003
PXP4083	Sealing cap for use with PXP4012 & PXP4013

Gland Packs



Part no.	Description
PXP4088/0305	Pack of 4 pairs cable glands and collets to suit cables from 3.0 to 5.0mm diameter.
PXP4088/0507	Pack of 4 pairs cable glands and collets to suit cables from 5.0 to 7.0mm diameter.

O-ring & washer pack



Part no.	Description
PXP4089/YL	Yellow coloured O-ring and washer pack
PXP4089/BL	Blue coloured O-ring and washer pack
PXP4089/RD	Red coloured O-ring and washer pack
PXP4089/WH	White coloured O-ring and washer pack
PXP4089/GN	Green coloured O-ring and washer pack

Crimp Contacts

Contacts	Current Rating	Plug Part No.	Socket Part No.	Pack Qty	Cable Acceptance (dia)
2, 3	13A /*10A	SA3350	SA3349	10	16 - 18 AWG
4, 6, 8	8A /*5A	SA3348	SA3347	10	18 - 20 AWG
10, 12	3A /*3A	SA3180	SA3179	10	22 - 24 AWG

Solder Contacts

Contacts	Current Rating	Plug Part No.	Socket Part No.	Pack Qty	Cable Acceptance (dia)
2, 3	13A /*10A	SA3350/1	SA3349/1	10	16 - 18 AWG
4, 6, 8	8A /*5A	SA3348/1	SA3347/1	10	18 - 20 AWG
10, 12	3A /*3A	SA3180/1	SA3179/1	10	22 - 24 AWG

Insertion / Extraction

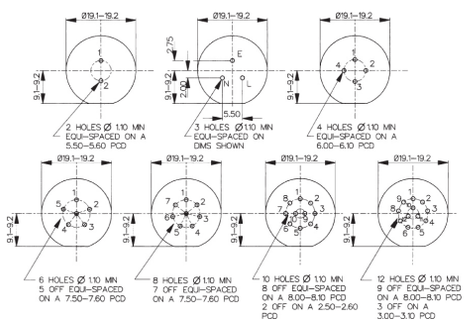
	Contacts	Contact Rating	Colour	Part No
Insertion/Extraction Tool	2, 3	13A /*10A	Blue	13027/2
Insertion/Extraction Tool	4, 6, 8	8A /*5A	Red	13027/1
Insertion/Extraction Tool	10, 12	3A /*3A	Green	13027

Crimp tools

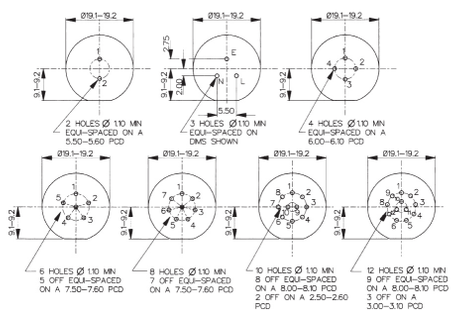
	Contacts	Contact Rating	Colour	Part No
Positioner	2, 3	13A /*10A	Orange	14025/1618
Positioner	4, 6, 8	8A /*5A	Grey	14025/1820
Positioner	10, 12	3A /*3A	Yellow	14025/2224
8 Indent Crimp Tool for use with positioners				14025

PXP4013 PCB Contact Layout

Sockets
Contact numbers viewed from rear of panel



Plugs
Contact numbers viewed from rear of panel





2 Contacts (13 Amp) | 3 Contacts (13 Amp) | 4 Contacts (8 Amp) | 6 Contacts (8 Amp) | 8 Contacts (8 Amp) | 10 Contacts (3 Amp) | 12 Contacts (3 Amp)

Electrical

No. of Contacts:	2 & 3	4, 6 & 8	10 & 12
Current Rating UL / VDE:	13A	8A	3A
Current Rating CSA:	10A	5A	3A
Voltage Rating:	600V AC/DC	320V AC/DC	160V AC/DC
Contact Resistance:	< 5 mΩ		
Insulation Resistance:	> 10^6 MΩ (@ 500V DC)		
AC Breakdown voltage:	2.5 kV		
Cycles:	> 1000		
Operating Temperature:			
Flex and panel types:	–40°C to +120°C		
Pre-wired variants:	–30°C to +120°C		
Approvals (pending for pre-wired):			
UL (Underwriters Laboratory) (including cUL)			
VDE (Verband der Elektrotechnik)			

Material

Flex and panel types:	
Body Mouldings:	Polybutylene Terephthalate/ Polycarbonate (PBT/PC)
Pre-Wired Types:	
Overmoulding:	Polyamide (PA)
Cable Jackets:	Polyvinylchloride (PVC)
Flammability Rating:	UL94V-0
Contacts:	Copper alloy, Gold plated
O Rings:	Silicone
Panel Sealing O Ring:	Silicone
RoHS	Compliant

Mechanical

Sealing:	IP68 to EN60529:1992+A2:2013 (10m depth for 2 weeks)
Vibration:	BS EN 60068-2-64:2008 Test Fh
Shock:	BS EN 60068-2-27:2009 Test Ea
Cable Acceptance:	3.0 - 7.0mm
Contact Accommodation:	2 & 3 Contacts, 16 - 18 AWG 4, 6 & 8 Contacts, *18 - 20 AWG 10 & 12 Contacts, 22 - 24 AWG * Solid Core Wire Only
Termination:	Crimp, solder and PCB
Insertion/Withdrawal Force:	

No. of Contacts:	2 & 3	4, 6 & 8	10 & 12
Insertion Force (typ):	25N	28N	32N
Withdrawal Force (typ):	12N	15N	18N

Panel mount (PXP4012, PXP4013)	
Front fixing nut:	1.0-1.1Nm (9lbf.in.)
Cable Retention force:	
3.0mm dia	60N
4.0 to 7.0mm dia	80N
Pre-Wired Variant	80N
Panel thread PXP4012 & PXP4013	18.97 x 26 TPI Whitworth form to BS84 med fit

Dimensions

Overall dimensions of connectors when mated together	
Flex + Inline	80mm
Dia. over coupling ring	19.7mm

Cable (prewired)

Cores	Jacket Colour	Jacket OD (mm)	AWG (stranded)
2	Grey	6.5	18
3	Grey	6.9	18
4	Black	5.9	20
6	Black	6.8	20
8	Black	7.4	20
10	Black	7.0	24
12	Black	7.4	24

Cable (prewired)

Core numbers	Colour (2/3 Cores)	Colour (4+ Cores)
1	Black, white numbers	Black
2	Black, white numbers	Brown
3	Green/Yellow	Red
4	-	Orange
5	-	Yellow
6	-	Green
7	-	Blue
8	-	Violet
9	-	Grey
10	-	White
11	-	White/Black
12	-	White/Brown

Standards:

PXP40XX	XX	X	XXXX
Body Styles	**Number of Contacts**	**Contact Type**	**(for PXP4010 and PXP4011 cable connectors) Cable Entry Size:**
PXP4010 = Flex	02	P = Plug	3035 = 3.0 - 3.5mm (Light Grey)
PXP4011 = Inline	03	S = Socket	3540 = 3.5 - 4.0mm (Grey)
PXP4012 = Front panel mounting	04		4045 = 4.0 - 4.5mm (Green)
PXP4013 = Rear panel/PCB mounting	06		4550 = 4.5 - 5.0mm (Red)
	08		
	10		5055 = 5.0 - 5.5mm (Yellow)
	12		5560 = 5.5 - 6.0mm (Blue)
			6065 = 6.0 - 6.5mm (White)
			6570 = 6.5 - 7.0mm (Black)

Examples:

PXP4010/03S/4045 = Flex cable connector, 3 socket contacts with gland and collet for cables between 4.0 and 4.5mm diameter (supplied less contacts).
PXP4013/08P = Rear panel mounting connector, for 8 Plug contacts (supplied less contacts).
PXP4013/03P/PC = Rear panel/PCB connector, 3 Plug contacts, PCB mounting (supplied with contacts loaded).

Cable gland and collet supplied in colour coded pairs.

For PXP4013 PCB/Rear Panel Mount:
PC = Pre-loaded PC Plugs
Blank = no Plugs supplied

Pre-Wired Variants:

PXP400X	XXX	XX	X
Body Styles	**Cable Length**	**Number of Contacts**	**Contact Type**
PXP4000 = Pre-wired Flex Cable Connector	001 = 1m	02	P = Plug
PXP4001 = Pre-wired Inline Cable Connector	002 = 2m	03	S = Socket
PXP4002 = Pre-wired Flex Cable Connector Right Angle	003 = 3m	04	
PXP4003 = Pre-wired Inline Cable Connector Right Angle	005 = 5m	06	
	010 = 10m	08	
	015 = 15m	10	
		12	

Examples:

PXP4000/001/03S = Pre-wired Flex cable connector, 1m, 3 socket contacts
PXP4001/002/04S = Pre-wired Inline cable connector, 2m, 4 socket contacts
PXP4002/010/08P = Pre-wired Flex cable connector, right angle, 10m, 8 plug contacts
PXP4003/015/10P = Pre-wired Inline cable connector, right angle, 15m, 10 plug contacts

6000 Series Buccaneer – circular connectors that combine the ease of use of a push/pull coupling mechanism with proven environmental sealing. Available with metal or plastic bodies, the range supports both data (USB and Ethernet), signal and mains power. Designed and independently tested to IP66, IP68 & IP69K standards, they are ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are important considerations.

- Secure, quick connector mating and release
- 30° twist locking
  Tamperproof lock prevents accidental un-mating
- IP66, IP68 and IP69K when mated
  Suitable for a wide range of dust and water borne environments
- All plastic body version; UL94-V0 rated, UV stable, halogen free
  Light-weight, self-extinguishing material suitable for long-term outdoor use
- Flex, Inline & panel mount body styles,with sealing caps
  Complete family of products maintain sealing integrity in all styles
- Polarisation and visual alignment features
  Aids the correct mating of connectors
- 2 to 22 Contacts – up to 16A, 277V rated
  Suitable for mains power to signal applications
- ‘Scoop proof’ contacts
  Prevents damage through mis-mating – ideal for ‘blind mating’ applications
- cULus, UL, VDE
  Internationally recognised certification
- Screw, Crimp and Solder terminations available

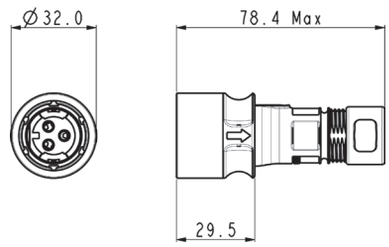


Flex Cable Connector



PXP6010

- Mates with Inline or Panel Mounting versions PXP6011 & PXP6012
- Push/pull locking ring with 30° twist locking
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 & 22 Contact
- Screw, solder and crimp termination



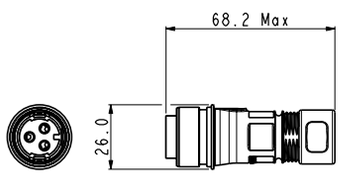
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP6010/02P/ST	PXP6010/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6010/02P/CR	PXP6010/02S/CR	Contacts Required
3	Screw	PXP6010/03P/ST	PXP6010/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6010/03P/CR	PXP6010/03S/CR	Contacts Required
4	Crimp / Solder	PXP6010/04P/CR	PXP6010/04S/CR	Contacts Required
8	Crimp / Solder	PXP6010/08P/CR	PXP6010/08S/CR	Contacts Required
16	Crimp / Solder	PXP6010/16P/CR	PXP6010/16S/CR	Contacts Required
22	Crimp / Solder	PXP6010/22P/CR	PXP6010/22S/CR	Contacts Required

Inline Cable Connector



PXP6011

- Mates with Flex Cable connector PXP6010
- For Inline cable connection
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 and 22 Contact
- Screw, solder and crimp termination



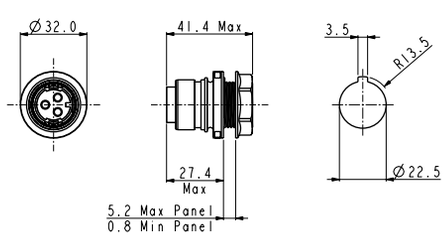
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP6011/02P/ST	PXP6011/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6011/02P/CR	PXP6011/02S/CR	Contacts Required
3	Screw	PXP6011/03P/ST	PXP6011/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6011/03P/CR	PXP6011/03S/CR	Contacts Required
4	Crimp / Solder	PXP6011/04P/CR	PXP6011/04S/CR	Contacts Required
8	Crimp / Solder	PXP6011/08P/CR	PXP6011/08S/CR	Contacts Required
16	Crimp / Solder	PXP6011/16P/CR	PXP6011/16S/CR	Contacts Required
22	Crimp / Solder	PXP6011/22P/CR	PXP6011/22S/CR	Contacts Required

Front Panel Mounting Connector



PXP6012

- Mates with Flex Cable connectors PXP6010
- Front panel mounting
- Single hole fixing
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 and 22 Contact
- Screw, solder and crimp termination



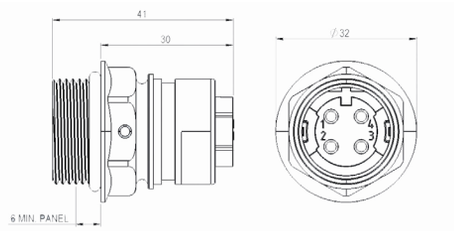
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP6012/02P/ST	PXP6012/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6012/02P/CR	PXP6012/02S/CR	Contacts Required
3	Screw	PXP6012/03P/ST	PXP6012/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6012/03P/CR	PXP6012/03S/CR	Contacts Required
4	Crimp / Solder	PXP6012/04P/CR	PXP6012/04S/CR	Contacts Required
8	Crimp / Solder	PXP6012/08P/CR	PXP6012/08S/CR	Contacts Required
16	Crimp / Solder	PXP6012/16P/CR	PXP6012/16S/CR	Contacts Required
22	Crimp / Solder	PXP6012/22P/CR	PXP6012/22S/CR	Contacts Required

Screwed Front Panel Mounting Connector



PXP6014

- Mates with Flex Cable connectors PXP6010
- Front panel mounting
- M24x1.5 thread to engage the connector to the panel
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 and 22 Contact
- Screw, solder and crimp termination



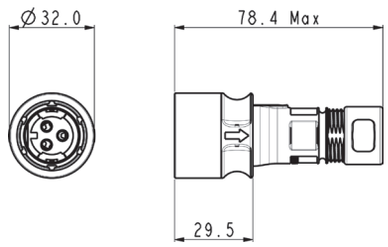
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP6014/02P/ST	PXP6014/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6014/02P/CR	PXP6014/02S/CR	Contacts Required
3	Screw	PXP6014/03P/ST	PXP6014/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6014/03P/CR	PXP6014/03S/CR	Contacts Required
4	Crimp / Solder	PXP6014/04P/CR	PXP6014/04S/CR	Contacts Required
8	Crimp / Solder	PXP6014/08P/CR	PXP6014/08S/CR	Contacts Required
16	Crimp / Solder	PXP6014/16P/CR	PXP6014/16S/CR	Contacts Required
22	Crimp / Solder	PXP6014/22P/CR	PXP6014/22S/CR	Contacts Required

Flex Cable Connector



PXM6010

- Mates with Inline or Panel Mounting versions PXM6011 and PXM6012
- Push/pull locking ring with 30° twist locking
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 and 22 Contact
- Screw, solder and crimp termination
- Cable braid termination accessory option, add /SNsuffix



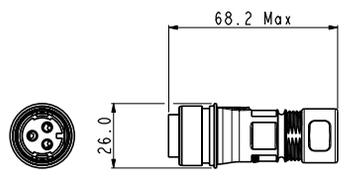
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXM6010/02P/ST	PXM6010/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6010/02P/CR	PXM6010/02S/CR	Contacts Required
3	Screw	PXM6010/03P/ST	PXM6010/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6010/03P/CR	PXM6010/03S/CR	Contacts Required
4	Crimp / Solder	PXM6010/04P/CR	PXM6010/04S/CR	Contacts Required
8	Crimp / Solder	PXM6010/08P/CR	PXM6010/08S/CR	Contacts Required
16	Crimp / Solder	PXM6010/16P/CR	PXM6010/16S/CR	Contacts Required
22	Crimp / Solder	PXM6010/22P/CR	PXM6010/22S/CR	Contacts Required

Inline Cable Connector



PXM6011

- Mates with Flex Cable connector PXM6010
- For Inline cable connection
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 and 22 Contact
- Screw, solder and crimp termination
- Cable braid termination accessory option, add /SNsuffix



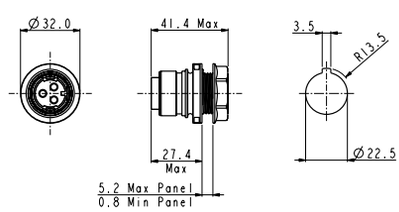
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXM6011/02P/ST	PXM6011/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6011/02P/CR	PXM6011/02S/CR	Contacts Required
3	Screw	PXM6011/03P/ST	PXM6011/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6011/03P/CR	PXM6011/03S/CR	Contacts Required
4	Crimp / Solder	PXM6011/04P/CR	PXM6011/04S/CR	Contacts Required
8	Crimp / Solder	PXM6011/08P/CR	PXM6011/08S/CR	Contacts Required
16	Crimp / Solder	PXM6011/16P/CR	PXM6011/16S/CR	Contacts Required
22	Crimp / Solder	PXM6011/22P/CR	PXM6011/22S/CR	Contacts Required

Front Panel Mounting Connector



PXM6012

- Mates with Flex Cable connectors PXM6010
- Single hole fixing
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 and 22 Contact
- Screw, solder and crimp termination



Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXM6012/02P/ST	PXM6012/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6012/02P/CR	PXM6012/02S/CR	Contacts Required
3	Screw	PXM6012/03P/ST	PXM6012/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6012/03P/CR	PXM6012/03S/CR	Contacts Required
4	Crimp / Solder	PXM6012/04P/CR	PXM6012/04S/CR	Contacts Required
8	Crimp / Solder	PXM6012/08P/CR	PXM6012/08S/CR	Contacts Required
16	Crimp / Solder	PXM6012/16P/CR	PXM6012/16S/CR	Contacts Required
22	Crimp / Solder	PXM6012/22P/CR	PXM6012/22S/CR	Contacts Required

Crimp / Solder Contacts



2, 3, 4, 8, 16 & 22 Contact contacts

- Gold Plated
- Current ratings:
  2 & 3 Contact : 16A
  4 & 8 Contact : 10A
  16 Contact : 3A
  22 Contact : 2A

Contacts (for 2 & 3 Contact) (Supplied in packs of 10)	Crimp	Solder
Plugs	SA3545/P	SA3624/P
Sockets	SA3545/S	SA3624/S
Contacts (for 4 & 8 Contact) (Supplied in packs of 10)	**Crimp**	**Solder**
Plugs	SA3544/P	SA3623/P
Sockets	SA3544/S	SA3623/S
Contacts (for 16 & 22 Contact) (Supplied in packs of 10)	**Crimp**	**Solder**
Plugs	SA3542/P	SA3622/P
Sockets	SA3542/S	SA3622/S

Crimp Tooling



PNo 14232

- Crimp Tools for 2, 3, 4, 8, 16 and 22 Contact crimp contacts

Crimp Tooling

Crimp Tool (2 & 3 Contact)	PNo.14232
Positioner (2 & 3 Contact)	PNo.14232/2/SP
Crimp Tool (4, 8, 16 & 22 Contact)	PNo.14025
Positioner (4 & 8 Contact)	PNo.15021/SP
Positioner (16 & 22 Contact)	PNo.15019/SP

Extraction Tool

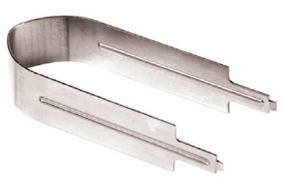


- Extraction Tool for 2, 3, 4, 8, 16 and 22 Contact contacts

Extraction Tools

Extraction Tool (2 & 3 Contact)	PNo.14946/SP
Extraction Tool (4 & 8 Contact)	PNo.14945/SP
Extraction Tool (16 & 22 Contact)	PNo.14944/SP

Contact Carrier Removal Tool



PNo 14917

- For removal of all contact carriers

Tools

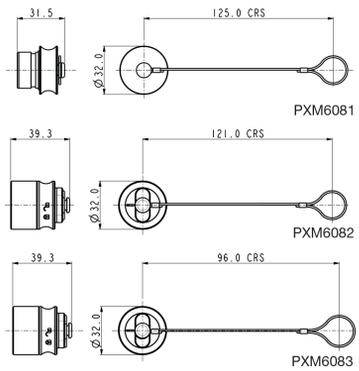
Contact carrier removal tool (all Contacts)	PNo. 14917/SP

Sealing Caps



PXM6083 PXM6082 PXM6081

- Maintains IP Rating of Unmated Connectors
- PXM6081: Fits PXM6010 (Flex Connector)
- PXM6082: Fits PXM6011 (Inline Connector)
- PXM6083: Fits PXM6012 (Panel Connector)

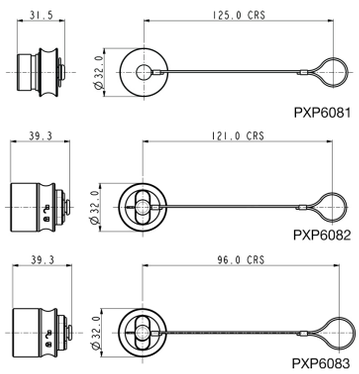


Plastic Sealing Caps



PXP6083 PXP6082 PXP6081

- Maintains IP Rating of Unmated Connectors
- PXP6081: Fits PXP6010 (Flex Connector)
- PXP6082: Fits PXP6011 (Inline Connector)
- PXP6083: Fits PXP6012 & PXP6014 (Panel Connector)



Cable Gland Pack



PXP6088

- Pack of all cable glands to suit cable ranges from 4.0 to 10.0mm diameter
- Light Grey: 9-10mm
- Yellow: 7-9mm
- White: 5-7mm
- Dark Grey: 4-5mm

Cable Braid Termination Option



PXM6090

- For cable braid termination
- Supplied with ty-rap

PXX	601X	/ XX	X	/ XX	/ XXXX	/ XX

Series Designation	Series / Body Style	No. of Contacts	Contacts Type	Terminations	Cable Entry Size	Cable Braid Termination Accessory
PXM= Metal Series PXP= Plastic Series	6010 = Flex 6011 = Inline 6012 = Front Panel 6014 = Screwed Front Panel (Plastic Only)	02 03 04 08 16 22	P = Plug S = Socket	CR = Contacts Required ST = Screw (2 and 3 Contact only)	(for Flex and Inline connectors only) 0405 = 4-5mm (Dark Grey) 0507 = 5-7mm (White) 0709 = 7-9mm (Yellow) 0910 = 9-10mm (Light Grey)	(for Metal Flex and Inline connectors only) SN if required Blank if not required

Examples

PXM6010/03P/CR/0507= Flex cable connector, 3 Contact, Plug contacts with 5 to 7mm cable glands
PXM6012/03/S/ST= Front panel mounting connector, 3 Contact, socket with screw termination

Electrical:

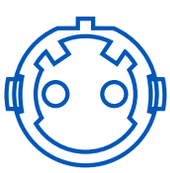
No. Contacts:	2	3	4	8	16	22
Current Rating: See de-rating curves for further information						
VDE	16A	16A	10A	10A	3A	2A
UL	16A	16A	7A	7A	3A	3A
cUL	11A	11A	4A	4A	1.5A	1.5A
Voltage	277V	277V	277V	277V	60V	60V
Rated cable	14 AWG	14 AWG	16-20 AWG	16-20 AWG	22 AWG	26 AWG

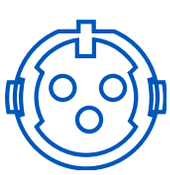
Contact Resistance:	<10mΩ
Insulation Resistance:	>10^6MΩ @500V DC
AC Breakdown voltage:	
2 Contact	>10kV
3 Contact	>8kV
4 to 22 Contact	>5kV
Operating Temp. Range:	–40°C to +120°C
Approvals:	
UL (E214972)	UL1977
cULus (E214972)	C22.2 No.182.3-M1987 (R2009)
VDE (40039281)	IEC 61984:2009

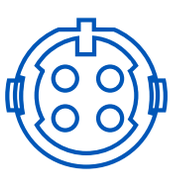
Mechanical:

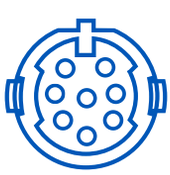
Locking mechanism	Push/pull with 30° locking
Sealing:	IP66 to En60529:1992+A2:2013 IP68 to En60529:1992+A2:2013 (10m depth for 2 weeks) IP69k to DIN 40050-9
Salt Mist (plastic) :	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Salt Mist (metal) :	EN60068-2-11 Test Ka Salt Mist
Contact Accommodation:	
2 & 3 Contact crimp / solder	14 to 18AWG
2 & 3 Contact screw terminals	16 AWG Max
4 & 8 Contact crimp / solder	18 to 20AWG
16 Contact crimp / solder	22 to 26AWG
22 Contact crimp / solder	22 to 26AWG
Cable Acceptance:	4-10mm dia.
Cable retention force (to BS EN61984):	
4 - 9mm dia cable	80N
9 - 10mm dia cable	100N
Terminations:	
2 Contact:	Screw Terminals
3 Contact:	Screw, crimp or solder terminals
4 Contact:	Crimp / Solder Contacts
8 Contact:	Crimp / Solder Contacts
16 Contact:	Crimp / Solder Contacts
22 Contact:	Crimp / Solder Contacts
Tightening Torques:	
Gland Nut:	1.13Nm (10lb.in.)
Panel Nut:	1.7Nm (15lbf.in.)
PXP 6014	2Nm (17.7lbf.in.)
Panel Nut Thread:	M22 x 1.5-6g
Dimensions:	
Diameter: (over coupling ring)	32mm
Diameter: (panel hole cut-out)	22.5mm

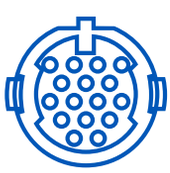
Materials:	Plastic	Metal
Body:	PC/ PBT	Brass
Colour:	Grey	Matt silver
Contacts:	Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold plated)	Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold plated)
O Rings & Gaskets:	Silicone	Silicone
Flammability Rating:	UL94 V-0	-
Halogen free	Yes	-
UV Resistance:	ISO 4892 part 3 cycle 1 (QUV)	-
RoHS	Compliant	Compliant

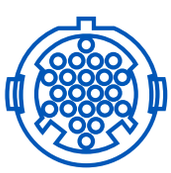

2 Contact


3 Contact


4 Contact


8 Contact


16 Contact


22 Contact

The thermal properties of the materials used in the construction of a connector limit the current carrying capacity. There are a number of factors that determine the amount of current that can be handled: contact spacing, size of cable, ambient temperature and the heat that is generated by the current passing through the connector.

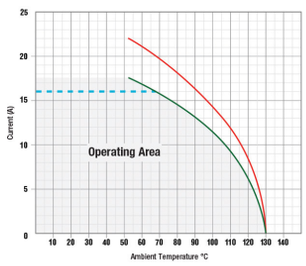
The maximum current varies with different contact layouts, and because of these factors it is necessary to produce de-rating curves for each contact variant. This de-rating curve is specified in the standard IEC 60512 part 3. De-rating curves are plotted for each contact
carrier combination with the current being carried simultaneously by all contacts. These graphs show the heat rise generated as the current is increased.

The red line indicates the direct correlation between current applied and the measured temperature rise within the connector. The dotted blue line shows rated current and the green line is derived by applying a factor of 0.8 to the original plot data to give a de-rating curve. The dashed blue line shows the rated current.

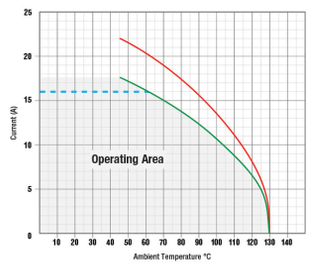
The shaded area under the 0.8 curve shows the permitted operating area, and allows safe current vs ambient temperature characteristics to be determined.

= tested operating limits
= de-rated operating limits
= rated current

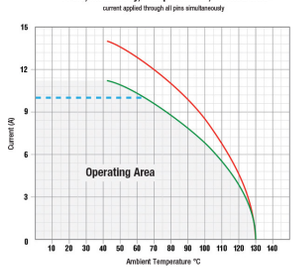
2 Pole, Metal Body, Crimp Terminal, 18 AWG wire
current applied through all pins simultaneously



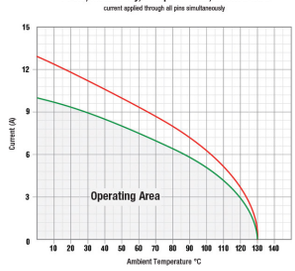
3 Pole, Metal Body, Screw Terminal, 18 AWG wire
current applied through all pins simultaneously



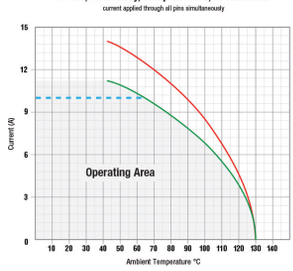
4 Pole, Metal Body, Crimp Terminal, 18 AWG wire
current applied through all pins simultaneously



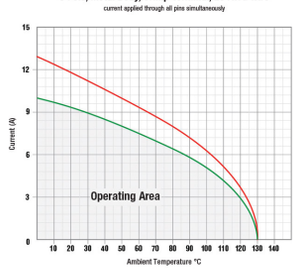
4 Pole, Metal Body, Crimp Terminal, 20 AWG wire
current applied through all pins simultaneously



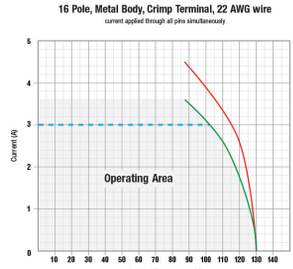
8 Pole, Metal Body, Crimp Terminal, 18 AWG wire
current applied through all pins simultaneously



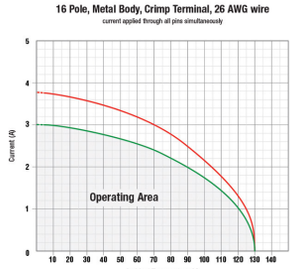
8 Pole, Metal Body, Crimp Terminal, 20 AWG wire
current applied through all pins simultaneously



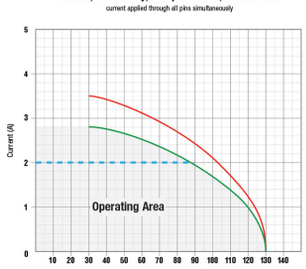
16 Pole, Metal Body, Crimp Terminal, 22 AWG wire
current applied through all pins simultaneously



16 Pole, Metal Body, Crimp Terminal, 26 AWG wire
current applied through all pins simultaneously



22 Pole, Metal Body, Crimp Terminal, 26 AWG wire
current applied through all pins simultaneously



The all plastic and metal construction of the 7000 Series Buccaneer - circular connectors that combine the ease of use of a quick coupling mechanism with proven environmental sealing for signal and mains power.

Designed and independently tested to IP66, IP68 & IP69K standards, they are ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are important considerations.

- Less than 1/4 Turn locking mechanism
  Secure, quick connector mating and release
- Positive feedback on locking mechanism
  Confidence that connector is correctly mated and sealed
- IP66, IP68 and IP69K when mated
  Suitable for a wide range of dust and water borne environments
- All plastic body version; UL94-V0 rated, UV stable, halogen free
  Light-weight, self-extinguishing material suitable for long-term outdoor use
- Flex, Inline & panel mount body styles,with sealing caps
  Complete family of products maintain sealing integrity in all styles
- Polarisation and visual alignment features
  Aids the correct mating of connectors
- 2 to 32 Contacts – up to 25A, 600V rated
  Suitable for mains power to signal applications
- ‘Scoop proof’ contacts
  Prevents damage through mis-mating – ideal for ‘blind mating’ applications
- cULus,
  approvals
- Screw, Crimp and Solder terminations available
- EN60068-2-52 Test Kb Salt Mist (Cyclic)
  Marine Severity Level 1

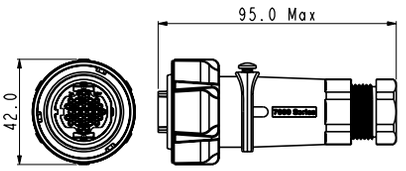


Flex Cable Connector



PXP7010

- Mates with Inline or Panel Mounting versions PXP7011 & PXP7012
- Quick turn locking ring
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 6, 10 & 32 Contact
- Screw solder and crimp termination



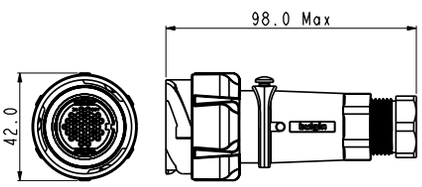
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP7010/02P/ST	PXP7010/02S/ST	Supplied Fitted
3	Screw	PXP7010/03P/ST	PXP7010/03S/ST	Supplied Fitted
6	Screw	PXP7010/06P/ST	PXP7010/06S/ST	Supplied Fitted
10	Crimp / Solder	PXP7010/10P/CR	PXP7010/10S/CR	Contact Required
32	Crimp / Solder	PXP7010/32P/CR	PXP7010/32S/CR	Contact Required

Inline Cable Connector



PXP7011

- Mates with Flex Cable connector PXP7010
- For Inline cable connection
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 6, 10 and 32 Contact
- Screw solder and crimp termination



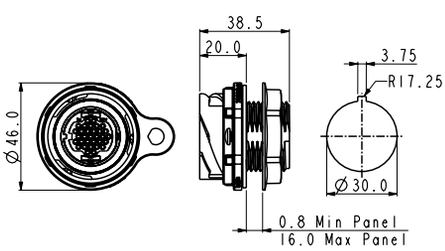
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP7011/02P/ST	PXP7011/02S/ST	Supplied Fitted
3	Screw	PXP7011/03P/ST	PXP7011/03S/ST	Supplied Fitted
6	Screw	PXP7011/06P/ST	PXP7011/06S/ST	Supplied Fitted
10	Crimp / Solder	PXP7011/10P/CR	PXP7011/10S/CR	Contact Required
32	Crimp / Solder	PXP7011/32P/CR	PXP7011/32S/CR	Contact Required

Front Panel Mounting Connector



PXP7012

- Mates with Flex Cable connectors PXP7010
- Single hole fixing
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 6, 10 and 32 Contact
- Screw solder and crimp termination



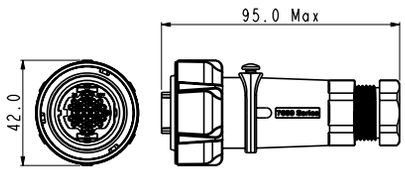
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP7012/02P/ST	PXP7012/02S/ST	Supplied Fitted
3	Screw	PXP7012/03P/ST	PXP7012/03S/ST	Supplied Fitted
6	Screw	PXP7012/06P/ST	PXP7012/06S/ST	Supplied Fitted
10	Crimp / Solder	PXP7012/10P/CR	PXP7012/10S/CR	Contact Required
32	Crimp / Solder	PXP7012/32P/CR	PXP7012/32S/CR	Contact Required

Flex Cable Connector



PXM7010

- Mates with Inline or Panel Mounting versions PXM7011 & PXM7012
- Quick turn locking ring
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 6, 10 & 32 Contact
- Screw solder and crimp termination
- Cable braid termination accessory option, add /SNsuffix



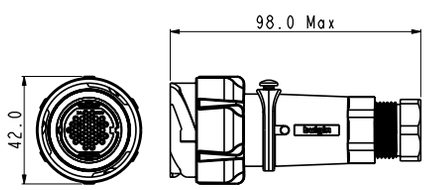
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXM7010/02P/ST	PXM7010/02S/ST	Supplied Fitted
3	Screw	PXM7010/03P/ST	PXM7010/03S/ST	Supplied Fitted
6	Screw	PXM7010/06P/ST	PXM7010/06S/ST	Supplied Fitted
10	Crimp / Solder	PXM7010/10P/CR	PXM7010/10S/CR	Contact Required
32	Crimp / Solder	PXM7010/32P/CR	PXM7010/32S/CR	Contact Required

Inline Cable Connector



PXM7011

- Mates with Flex Cable connector PXM7010
- For Inline cable connection
- Plug or socket versions
- Leading earth on 3 Contact connectors
  2, 3, 6, 10 and 32 Contact
- Screw solder and crimp termination
- Cable braid termination accessory option, add /SNsuffix



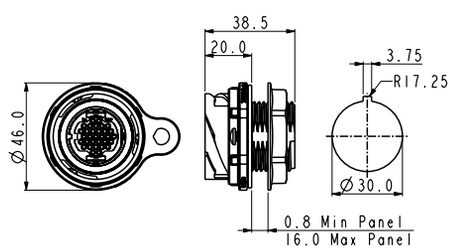
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXM7011/02P/ST	PXM7011/02S/ST	Supplied Fitted
3	Screw	PXM7011/03P/ST	PXM7011/03S/ST	Supplied Fitted
6	Screw	PXM7011/06P/ST	PXM7011/06S/ST	Supplied Fitted
10	Crimp / Solder	PXM7011/10P/CR	PXM7011/10S/CR	Contact Required
32	Crimp / Solder	PXM7011/32P/CR	PXM7011/32S/CR	Contact Required

Front Panel Mounting Connector



PXM7012

- Mates with Flex Cable connectors PXM7010
- Single hole fixing
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 6, 10 and 32 Contact
- Screw solder and crimp termination



Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXM7012/02P/ST	PXM7012/02S/ST	Supplied Fitted
3	Screw	PXM7012/03P/ST	PXM7012/03S/ST	Supplied Fitted
6	Screw	PXM7012/06P/ST	PXM7012/06S/ST	Supplied Fitted
10	Crimp / Solder	PXM7012/10P/CR	PXM7012/10S/CR	Contact Required
32	Crimp / Solder	PXM7012/32P/CR	PXM7012/32S/CR	Contact Required

Crimp / Solder Contacts



10 & 32 Contacts

- Gold Plated
- Current ratings:
  10 Contact: 10A
  32 Contact: 2A

Contacts (for 10 Contact) (Supplied in packs of 10)	Crimp	Solder
Plugs	SA3544/P	SA3623/P
Sockets	SA3544/S	SA3623/S

Contacts (for 32 Contact) (Supplied in packs of 10)	Crimp	Solder
Plugs	SA3542/P	SA3622/P
Sockets	SA3542/S	SA3622/S

Crimp Tooling



PNo 14025

- Crimp Tools for 10 and 32 Contact crimp contacts

Crimp Tooling

Crimp Tool (10 & 32 Contact)	PNo. 14025
Positioner (10 Contacts)	PNo. 15021/SP
Positioner (32 Contacts)	PNo. 15019/SP

Extraction Tools



PNo 14944/SP PNo 14945/SP

- Extraction tool for 10 and 32 Contact contacts

Extraction Tools

Extraction tool (10 Contacts)	PNo. 14945/SP
Extraction tool (32 Contacts)	PNo. 14944/SP

Contact Carrier Removal Tool



PNo 15065/SP

- For removal of all contact carriers

Contact Carrier Removal Tool

Contact carrier removal tool (all Contacts)	PNo. 15065/SP

Cable Braid Termination Option



PXM7090

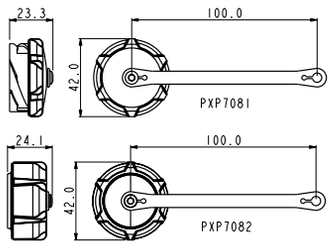
- For cable braid termination
- Supplied with ty-rap

Sealing Caps



PXP7082 PXP7081

- Maintains IP rating of unmated connectors
- PXP7081: Fits PXP7010 (Flex Connector)
- PXP7082: Fits PXP7011 (Inline Connector) and PXP7012: (Panel Connector)

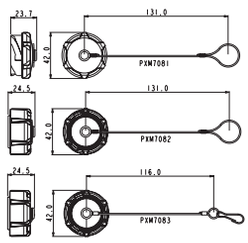


Sealing Caps



PXM7082 PXM7081 PXM7083

- Maintains IP rating of unmated connectors
- PXM7081: Fits PXM7010 (Flex Connector)
- PXM7082: Fits PXM7011 (Inline Connector) and PXP7012: (Panel Connector)
- PXM7083: Fits PXM7012 (Panel Mounting Connector)



Cable Gland Packs



PXP7088/ *

- Packs of cable glands, cages and gland nuts to suit cables ranges from 5.0 to 15.0mm diameter
- PXP7088/0507: for cable ranges between 5.0 and 7.0mm
- PXP7088/0713: for cable ranges between 7.0 and 13.0mm
- PXP7088/1315: for cable ranges between 13.0 and 15.0mm

PXX	701X	/ XX	X	/ XX	/ XXXX	/ XX

Series Designation	Series / Body Style	No. of Contacts	Contacts Type	Terminations	Cable Entry Size	Cable Brand Termination Accessory
PXM= Metal Series PXP= Plastic Series	7010 = Flex 7011 = Inline 7012 = Front Panel	02 03 06 10 32	P = Plug S = Socket	ST = Screw Terminal (2, 3, & 6 Contacts only) CR = Contacts Required (10 & 32 Contacts only)	(for Flex and Inline connectors only) 0507 = 5-7mm (grey) 0709 = 7-9mm (white) 0911 = 9-11mm (black) 1113 = 11 to 13 mm (yellow) 1315 = 13 to 15 mm (light grey)	(for Flex and Inline connectors only) SN - If requires Blank - If not required

Examples

PXM7010/10/P/CR/0911/SN= Flex cable connector, 10 Contacts, Plug contacts with 9 to 11mm cable glands and braid termination accessory

PXM7012/03/S/ST= Front panel mounting connector, 3 Contacts, socket with screw termination

Electrical:

No Contacts:	2	3	6	10	32
Current Rating:					
UL	25A	25A	10A	10A	3A
cUL (pending)	25A	25A	8A	6A	2A
Voltage Rating (AC/DC):					
UL, cUL (pending)	600V	600V	600V	600V	600V
Contact Resistance:	<10mΩ				
Insulation Resistance:	>10^6MΩ @500V DC				
AC Breakdown voltage:					
2 Contacts	>10kV				
3 Contacts	>8kV				
6 to 32 Contacts	>5kV				
Operating Temp. Range:	–40°C to +120°C				
Approvals:					
UL	UL1977				
cULus	E214972)				

Mechanical:

Locking mechanism	Quarter turn, rapid locking
Sealing:	IP66 to EN60529:1992+A2:2013 IP68 to EN60529:1992+A2:2013 (10m depth for 2 weeks) IP69k to DIN 40050-9
Salt Mist (plastic):	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Salt Mist (metal):	EN60068-2-11 Test Ka Salt Mist
Contact Accommodation:	
2 & 3 Contacts screw terminals	6.0mm² max
6 Contacts screw	1.00mm² max
10 Contacts crimp / solder	18 to 20AWG
32 Contacts crimp / solder	22 to 26AWG
Cable Acceptance:	5-15mm dia.
Cable retention force (to BS EN61984):	
5 - 9mm dia cable	80N
9 - 15mm dia cable	100N
Terminations	
2 Contacts:	Screw Terminals
3 Contacts:	Screw Terminals
6 Contacts:	Screw Terminals
10 Contacts:	Crimp / Solder Contacts
32 Contacts:	Crimp / Solder Contacts
Tightening Torques:	
Gland Nut:	1.13Nm (10lb.in)
Panel Nut:	1.7Nm (15lbf.in.)
Panel Nut Thread	M30 x 2-6g
Dimensions:	
Diameter: (over coupling ring)	42mm
Diameter: (panel hole cut-out)	30mm

Materials:	Plastic	Metal
Body:	PC/ PBT	Cast zinc alloy, nickel plated
Colour:	Grey	Matt silver
Contacts:	Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold plated)	Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold plated)
O Rings & Gaskets:	Silicone	Silicone
Flammability Rating:	UL94 V-0	-
Halogen free	Yes	-
UV Resistance:	ISO 4892 part 3 cycle 1 (QUV)	-
RoHS	Compliant	Compliant

The thermal properties of the materials used in the construction of a connector limit the current carrying capacity. There are a number of factors that determine the amount of current that can be handled: contact spacing, size of cable, ambient temperature and the heat that is generated by the current passing through the connector.

The maximum current varies with different contact layouts, and because of these factors it is necessary to produce de-rating curves for each contact variant. This de-rating curve is specified in the standard IEC 60512 part 3. De-rating curves are plotted for each contact carrier combination with the current being carried simultaneously by all contacts. These graphs show the heat rise generated as the current is increased.

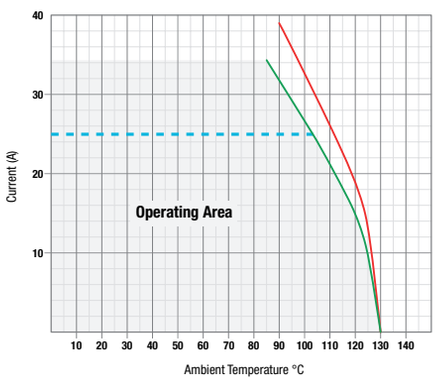
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The shaded area under the 0.8 curve shows the permitted operating area, and allows safe current vs ambient temperature characteristics to be determined.

— = tested operating limits
— = de-rated operating limits
– – = rated current

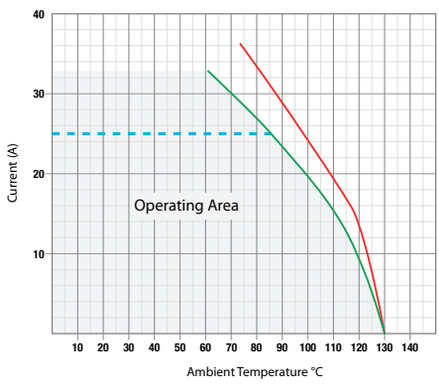
7000 Series Current vs. Temperature Characteristics

2 Pole, Plastic Body, Screw Terminal, 6.0mm² wire
current applied through all pins simultaneously



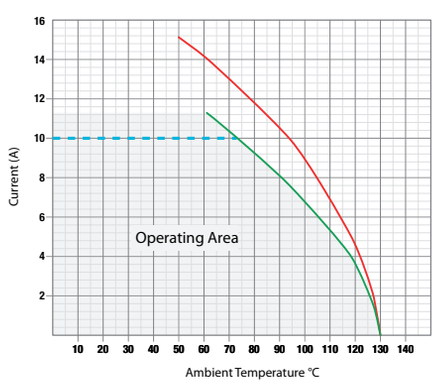
7000 Series Current vs. Temperature Characteristics

3 Pole, Plastic Body, Screw Terminal, 4.0mm² wire
current applied through all pins simultaneously



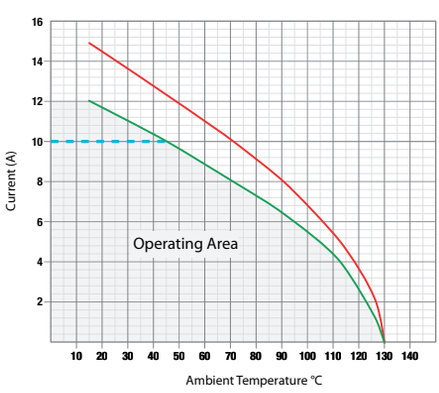
7000 Series Current vs. Temperature Characteristics

6 Pole, Plastic Body, Screw Terminal, 1.0mm² wire
current applied through all pins simultaneously



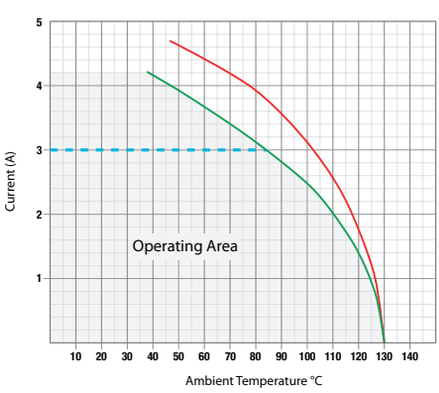
7000 Series Current vs. Temperature Characteristics

10 Pole, Plastic Body, Crimp Terminal, 18 AWG wire
current applied through all pins simultaneously



7000 Series Current vs. Temperature Characteristics

32 Pole, Plastic Body, Crimp Terminal, 22 AWG wire
current applied through all pins simultaneously



A range of high amperage flex body, flex body inline and flange mount connectors rated to IP68. These Delrin housing multi pin circular connectors are ideal for applications where dust and water ingress must be avoided and ease of connection to high ratings must be achieved.

- Bayonet 1/4 Turn locking Mechanism
  Secure, quick connector mating and release
- Screw Turn Locking
  Secure, robust connection and easy to disconnect
- Positive feedback on locking mechanism
  Confidence that connector is correctly mated and sealed
- IP68 when mated (for parts with backshell)
  Suitable for a wide range of dust and water borne environments
- Flex Body, Flex Body Inline and Flange Mount Available
  Complete family of products maintain sealing integrity in all styles
- Visual alignment features
  Aids the correct mating of connectors
- 2 to 11 Contacts - up to 225A, 1250V AC RMS
  Suitable for mains power to signal applications
- Crimp termination tooling available
- 300+ AMP contacts upon request



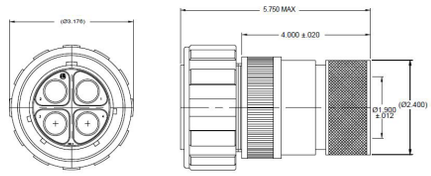
9000 Series High Power Buccaneer

Screw Locking -
Flex Body



PXP9050

- Plug contacts
- IP68 Rated
- Up to 1250V AC RMS
- Suppled with Backshell



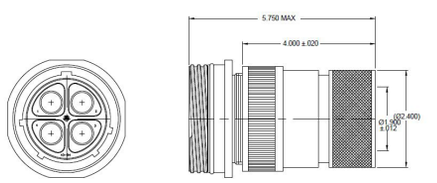
Part Number	Contacts	Contact Type	Contact Size	Body Type	Backshell
PXP9050/02/P/1	2	Plug	4/0	Flex	Yes
PXP9050/04/P/1	4	Plug	1/0	Flex	Yes
PXP9050/06/P/1	6	Plug	1/0	Flex	Yes
PXP9050/08/P/1	8	Plug	4x 4 & 16AWG 4x	Flex	Yes
PXP9050/11/P/1	11	Plug	10x 4 & 16AWG 1x	Flex	Yes

Screw Locking -
Inline Body



PXP9051

- Socket contacts
- IP68 Rated
- Up to 1250V AC RMS
- Robust, with Quick Disconnect System



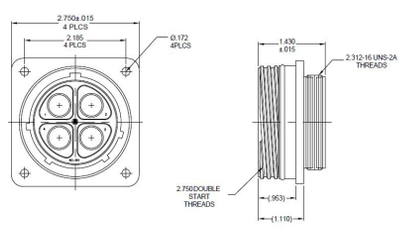
Part Number	Contacts	Contact Type	Contact Size	Body Type	Backshell
PXP9051/02/S/1	2	Socket	4/0	Inline	Yes
PXP9051/04/S/1	4	Socket	1/0	Inline	Yes
PXP9051/06/S/1	6	Socket	1/0	Inline	Yes
PXP9051/08/S/1	8	Socket	4x 4 & 16AWG 4x	Inline	Yes
PXP9051/11/S/1	11	Socket	10x 4 & 16AWG 1x	Inline	Yes

Screw Locking -
Flange Mount



PXP9052

- Socket contacts
- IP68 Rated
- Up to 1250V AC RMS
- Supplied with Mounting Gasket



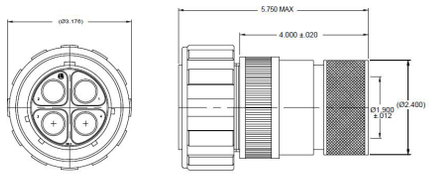
Part Number	Contacts	Contact Type	Contact Size	Body Type	Backshell
PXP9052/02/S	2	Socket	4/0	Flange Mount	No
PXP9052/04/S	4	Socket	1/0	Flange Mount	No
PXP9052/06/S	6	Socket	1/0	Flange Mount	No
PXP9052/08/S	8	Socket	4x 4 & 16AWG 4x	Flange Mount	No
PXP9052/11/S	11	Socket	10x 4 & 16AWG 1x	Flange Mount	No

Bayonet Quarter Turning Lock - Flex Body



PXP9010

- Plug contacts
- IP68 Rated
- Up to 1250V AC RMS
- Robust, with Quick Disconnect System
- Suppled with Backshell



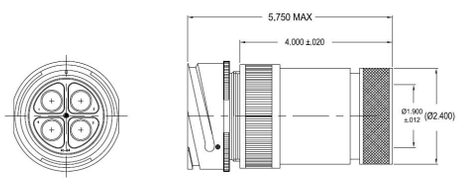
Part Number	Contacts	Contact Type	Contact Size	Body Type	Backshell
PXP9010/02/P/1	2	Plug	4/0	Flex	Yes
PXP9010/04/P/1	4	Plug	1/0	Flex	Yes
PXP9010/06/P/1	6	Plug	1/0	Flex	Yes
PXP9010/08/P/1	8	Plug	4x 4 & 16AWG 4x	Flex	Yes
PXP9010/11/P/1	11	Plug	10x 4 & 16AWG 1x	Flex	Yes

Bayonet Quarter Turning Lock - Inline Body



PXP9011

- Socket contacts
- IP68 Rated
- Up to 1250V AC RMS
- Robust, with Quick Disconnect System
- Supplied with Backshell



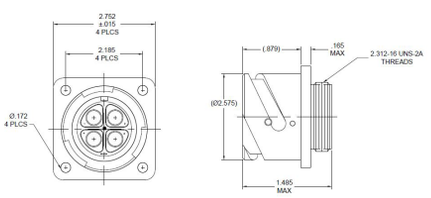
Part Number	Contacts	Contact Type	Contact Size	Body Type	Backshell
PXP9011/02/S/1	2	Socket	4/0	Inline	Yes
PXP9011/04/S/1	4	Socket	1/0	Inline	Yes
PXP9011/06/S/1	6	Socket	1/0	Inline	Yes
PXP9011/08/S/1	8	Socket	4x 4 & 16AWG 4x	Inline	Yes
PXP9011/11/S/1	11	Socket	10x 4 & 16AWG 1x	Inline	Yes

Bayonet Quarter Turning Lock - Flange Mount



PXP9012

- Socket contacts
- IP68 Rated
- Up to 1250V AC RMS
- Supplied with Mounting Gasket



Part Number	Contacts	Contact Type	Contact Size	Body Type	Backshell
PXP9012/02/S	2	Socket	4/0	Flange Mount	No
PXP9012/04/S	4	Socket	1/0	Flange Mount	No
PXP9012/06/S	6	Socket	1/0	Flange Mount	No
PXP9012/08/S	8	Socket	4x 4 & 16AWG 4x	Flange Mount	No
PXP9012/11/S	11	Socket	10x 4 & 16AWG 1x	Flange Mount	No

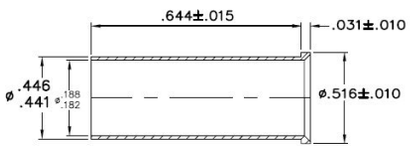
Adapter



PXP9080

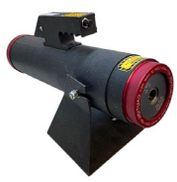
- Adapter

*crimping tool required - contact us for more details.



Part Number	Description
PXP9080	1/0 Plug and Socket Adapter to accommodate 6-8AWG conductors

Tooling



PXP9081 PXP9082 PXP9083

- Tooling:
  Pneumatic Tool Press
  Tooling Locator
  Tool Die Set

Part Number	Description
PXP9081	Pneumatic Tool Press
PXP9082	Tooling Locator
PXP9083	Tool Die Set

9000 Series High Power Buccaneer

Specifications & Part No System

Electrical:

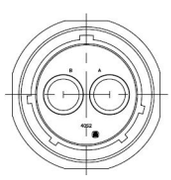
No Contacts:	2, 4, 6, 8, 11
Current Rating:	
2 Contact	225A
4 Contact	150A
6 Contact	150A
8 Contact	13A, 80A
11 Contact	80A, 13A
Voltage Rating (AC):	1250V AC RMS +700V AC RMS
Operating Temp. Range:	-55°C to +125°C
Approvals:	Standard Available

Materials:

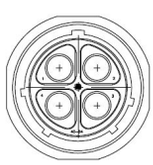
Plastic:	
Body:	Delrin
Colour:	Black
Contacts:	Copper Alloy Silver Plating
Flammability Rating:	UL94 V-0
RoHS	Compliant

Mechanical:

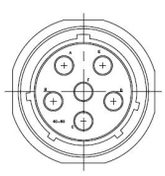
Locking Mechanism:	Bayonet Quarter Turn Rapid Locking Screw Lock
Sealing:	IP68 when mated to EN60529: 1992 + A2:2013
Contact Accommodation:	
2 Contact	4/0 (107.2 mm²)
4 Contact	1/0 (53.5 mm²)
6 Contact	1/0 (107.2 mm²)
8 Contact	4x 4 AWG (107.2 mm²) & 4 x 16 AWG (1.5 mm²)
11 Contact	10x 4 AWG (107.2 mm²) & 1 x 16 AWG (1.5 mm²)
Cable Acceptance:	Back Shell Inner Diameter 48.26 mm
Terminations:	Crimp Terminals
Dimensions:	
Diameter: (over coupling ring)	72.77mm (bayonet), 80.67mm (screw lock)



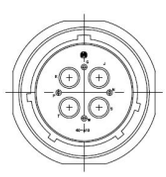
2 Contact



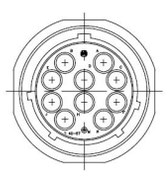
4 Contact



6 Contact



8 Contact



11 Contact

PXP90XX	X	/	XX	/	X	/	X

Series Designation

PXP901X = Bayonet Quarter Turn

PXP905X = Screw Locking

Series / Body Style

0 = Flex

1 = Inline

2 = Flange Mount

Contact of Contacts

02

04

06

08

11

Contact Type

P = Plug

S = Socket

Backshell

N/A = No Backshell

1 = 4” Screw on Backshell

Examples

PXP9050/02/P/1 = Screw Locking Flex Body Connector, 4 inch Backshell, 2 Contacts, Plug

PXP9012/02/S = Bayonet Locking Flange Mount Connector, No Backshell, 2 Contacts, Socket

A full range of IP68 rated environmentally sealed circular connectors designed to provide secure and safe connections in harsh or hostile conditions.

The Data Buccaneer range now includes designs specifically for Ethernet, USB and SMB applications. Ethernet Buccaneer meets Cat 5e requirements for data rates up to 100Mbps, USB Buccaneer is designed to meet USB version 2.0 specification for data rates up to 480Mbps, SMB Buccaneer has a frequency response up to 4GHz.

The Buccaneer series finds numerous applications either in external or internal environments where protection against the ingress of dust and moisture is a system requirement.



Standard Buccaneer - Ethernet



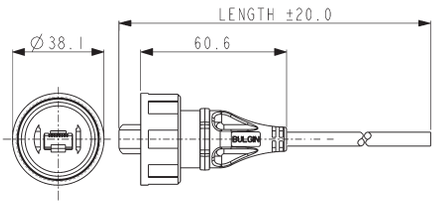
- IP68 when mated, Tested in accordance with EN60529:1992+A2:2013
- IP69K when mated, Tested in accordance with DIN 40050/Part 9 IP69k
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- Secure, proven & reliable screw locking mechanism
- PUR / PVC Jacket on cable
- Chemical resistance & flame retardant
- Cat 8 toolless Keystone IDC connector
- Data rates up to 25Gbps
- Backwards compatibility throughout
- Cat 5e or Cat 6a Shielded coupler
- Rewireable Flex connector up to Cat 6a
- Field termination up to Cat 6a
- Earth lead version of panel mounting coupler
- Cat 5e PCB Mount & IDC termination panel connector
- High noise immunity, full shielding and EMI protection
- Power over Ethernet (PoE) compliant

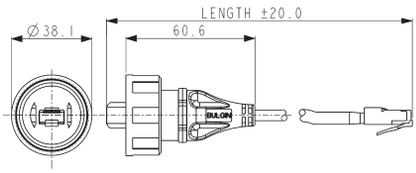
Patch Cord Flex Connector

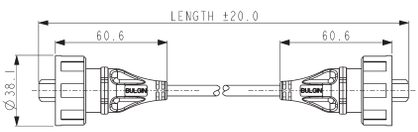


PX0836

- Mates with all panel mounting connectors
- Patchcords with IP68 connector
- Supplied with shielded RJ45 plug
- Single or double end terminated
- Standard lengths: 2m, 3m & 5m
- S-FTP cable construction
- PUR (Cat 5e) or PVC (Cat 6a / 8) jacket cable
- Wiring configuration to 568-B







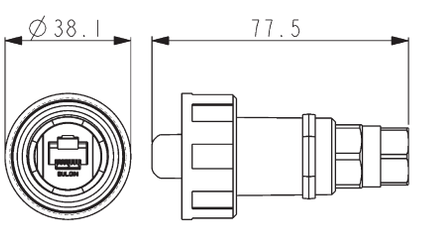
Part no.	Type	Length	Description
PX0836/2M00	Wire end	2m	Cat 5e IP68 RJ45 Buccaneer to bare end
PX0836/3M00	Wire end	3m	Cat 5e IP68 RJ45 Buccaneer to bare end
PX0836/5M00	Wire end	5m	Cat 5e IP68 RJ45 Buccaneer to bare end
PX0837/2M00	Single ended	2m	Cat 5e IP68 RJ45 Buccaneer to Shielded RJ45
PX0837/3M00	Single ended	3m	Cat 5e IP68 RJ45 Buccaneer to Shielded RJ45
PX0837/5M00	Single ended	5m	Cat 5e IP68 RJ45 Buccaneer to Shielded RJ45
PX0838/2M00	Double ended	2m	Cat 5e IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0838/3M00	Double ended	3m	Cat 5e IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0838/5M00	Double ended	5m	Cat 5e IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0896/2M00	Wire end	2m	Cat 6a IP68 RJ45 Buccaneer to bare end
PX0896/3M00	Wire end	3m	Cat 6a IP68 RJ45 Buccaneer to bare end
PX0896/5M00	Wire end	5m	Cat 6a IP68 RJ45 Buccaneer to bare end
PX0897/2M00	Single ended	2m	Cat 6a IP68 RJ45 Buccaneer to Shielded RJ45
PX0897/3M00	Single ended	3m	Cat 6a IP68 RJ45 Buccaneer to Shielded RJ45
PX0897/5M00	Single ended	5m	Cat 6a IP68 RJ45 Buccaneer to Shielded RJ45
PX0898/2M00	Double ended	2m	Cat 6a IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0898/3M00	Double ended	3m	Cat 6a IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0898/5M00	Double ended	5m	Cat 6a IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0857/2M00	Single ended	2m	Cat 8 IP68 RJ45 Buccaneer to IP68 Shielded RJ45
PX0857/3M00	Single ended	3m	Cat 8 IP68 RJ45 Buccaneer to IP68 Shielded RJ45
PX0857/5M00	Single ended	5m	Cat 8 IP68 RJ45 Buccaneer to IP68 Shielded RJ45
PX0858/2M00	Double ended	2m	Cat 8 IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0858/3M00	Double ended	3m	Cat 8 IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0858/5M00	Double ended	5m	Cat 8 IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer

Re Wireable Flex Connector



PX0834

- Mates with all panel mounting connectors
- Supplied with shielded RJ45 plug Two versions:
- Cat 5e or Cat 6a Cable size from 5 to 6mm diameter, or extra cable glands for other cable sizes from 3.5 to 8mm diameter.



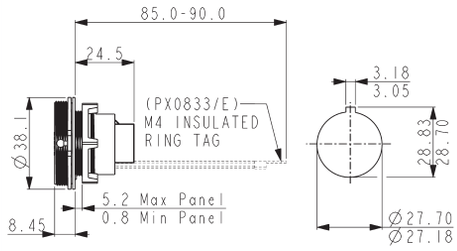
Part no.	Description
PX0834/A	Cat 5e suitable for use with cables from 5 to 6mm diameter
PX0834/B	Cat 5e with 2 extra cable glands, suitable for use with cables from 3.5 to 8mm diameter
PX0894/A	Cat 6a suitable for use with cables from 5 to 6mm diameter
PX0894/B	Cat 6a with 2 extra cable glands, suitable for use with cables from 3.5 to 8mm diameter

Front Panel Mounting Coupler Connector



PX0833

- Cat 5e mates with PX0836, PX0837, PX0838 & PX0834 flex connectors
- Cat 6a mates with PX0896, PX0897, PX0898 & PX0894 flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Version with earth wire available
- Single hole fixing
- Complete with panel sealing gasket



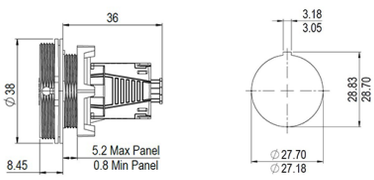
Part no.	Description	Fixing
PX0833	Cat 5e coupler	Front panel mounted
PX0833/E	Cat 5e coupler + earth wire	Front panel mounted
PX0893	Cat 6a coupler	Front panel mounted
PX0893/E	Cat 6a coupler + earth wire	Front panel mounted

Front Panel Mounting Keystone Connector



PX0855/KS

- Backwards compatible with all flex connectors
- Cat 8 mates with PX0857, PX0858 flex connectors
- Toolless jack termination
- Maintains shielding ground continuity
- Single hole fixing
- Complete with panel sealing gasket



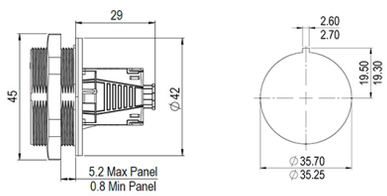
Part no.	Description	Fixing
PX0855/KS	Cat 8 Keystone connector	Front panel mounted

Rear Panel Mounting Keystone Connector



PX0856/KS

- Backwards compatible with all flex connectors
- Cat 8 mates with PX0857, PX0858 flex connectors
- Toolless jack termination
- Maintains shielding ground continuity
- Single hole fixing
- Complete with panel sealing gasket



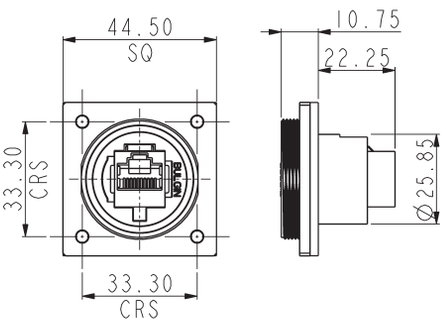
Part no.	Description	Fixing
PX0856/KS	Cat 8 Keystone connector	Rear panel mounted

Flange Mounting Connector



PX0870

- Cat 5e mates with PX0836, PX0837, PX0838 & PX0834 flex connectors
- Cat 6a mates with PX0896, PX0897, PX0898 & PX0894 flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Version with earth wire available
- Flange fixing
- Complete with panel sealing gasket



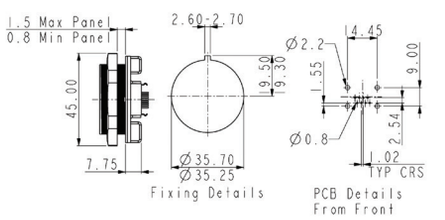
Part no.	Description	Fixing
PX0870	Cat 5e coupler	Flange mounting
PX0870/E	Cat 5e coupler + earth wire	Flange mounting
PX0890	Cat 6a coupler	Flange mounting
PX0890/E	Cat 6a coupler + earth wire	Flange mounting

PCB Mounting Connector



PX0839/PC

- Cat 5e shielded RJ45 interface
- Rear of panel mounted
- Mates with PX0836, PX0837, PX0838 and PX0834 flex connectors
- For direct vertical mounting to PCB, straight Plugs
- Complete with panel sealing PX0839/PC gasket



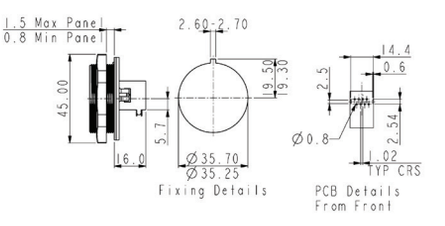
Part no.	Description	Fixing
PX0839/PC	Cat 5e connector - PC	Rear panel mounted

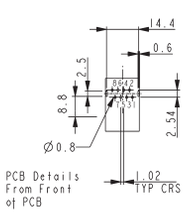
PCB Mounting Connector



PX0839/90

- Cat 5e shielded RJ45 interface
- Rear of panel mounted
- Mates with PX0836, PX0837, PX0838 and PX0834 flex connectors
- For direct horizontal mounting to PCB, 90° Plugs
- Complete with panel sealing PX0839/90 gasket





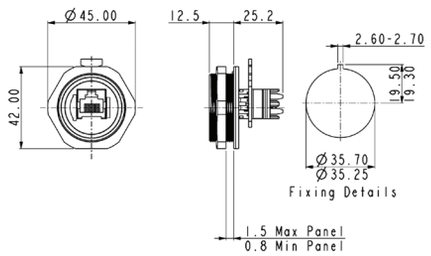
Part no.	Description	Fixing
PX0839/90	Cat 5e connector - 90 degree Plugs	Rear panel mounted

Panel Mounting Connector



PX0839/IDC

- Cat 5e shielded RJ45 interface
- Rear of panel mounted
- Mates with PX0836, PX0837,
- PX0838 and PX0834 flex connectors
- Two IDC blocks for discrete termination
- Complete with panel sealing



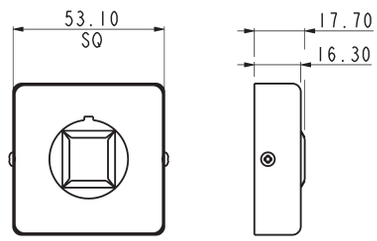
Part no.	Description	Fixing
PX0839/IDC	Cat 5e coupler - IDC	Rear panel mounted

Shield Back Shell Accessory



PX0888

- Maintains RJ45 coupler screening directly to panel
- Shielding can is fixed to rear of panel mount connector
- For use on PX0833, PX0893 & PX0855



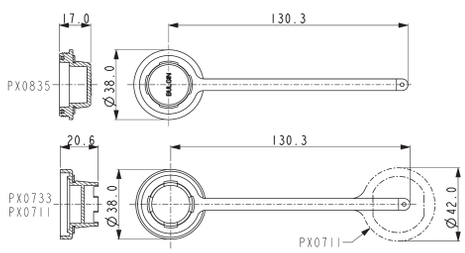
Part no.	Description
PX0888	Shielding backshell accessory

Accessories



Sealing Caps

- Sealing caps to maintain IP68 rating when connectors are not in use
- Replacement shielded RJ45s
- Hand crimp tool for shielded RJ45
- Patch cord cable available in 50m reels



Part no.	Description
PX0835	Sealing Cap for use on all ethernet flex connectors
PX0733	Sealing Cap for use on all front panel mounting connectors
PX0711	Sealing Cap for use on all rear panel mounting connectors
14151	Cat 5e & Cat 6a Hand crimp tooling + die set
14199	Cat 5e PUR Jacket Cable - 50m reel
14150	Cat 5e Replacement shielded RJ45
15241	Cat 6a PVC Jacket Cable - 50m reel

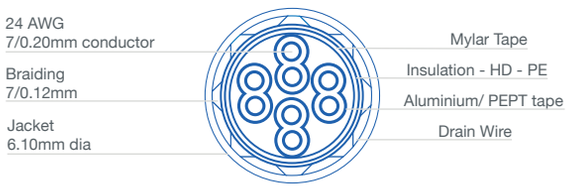
Connectors	Cat 5e & 6a	Cat 8
Sealing:	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
Operating Temperature:	–20°C to +70°C	–20°C to +60°C
Materials - Overmoulded Overmould material: Flammability rating:	 PVC (black) UL94V-0	 Polyamide (black) UL94V-0
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Materials - Re-wireable and Panel Connectors

Connector body & locking ring	Polyester
Panel connector	Nylon 6
Flammability rating	UL94V-0
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - flange	Neoprene
RoHS	Compliant

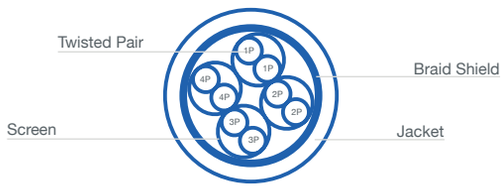
Cables & POE	Cat 5e	Cat 6a	Cat 8
Conductors	24AWG (7/0.2mm) bare copper	26AWG (7/0.16mm) bare copper	26AWG (7/0.16mm) bare copper
Insulation	HD-PE	PE (Skin - Foam - Skin)	N/A
Pair	2 of the above cores twisted	2 of the above cores twisted	2 of the above cores twisted
Core	4 of the above cores	4 of the above cores	4 of the above cores
Screen	1 layer mylar and aluminium tape,	Aluminium & Polyester	Aluminium & Polyester
Braid	0.12mm tinned copper braid	Tinned Copper Braid	Tinned Copper Braid
Jacket	PUR (Black)	PVC (Black)	PVC (Black)
Op Temperature	–25°C to +85°C	–25°C to +75°C	–20°C to +60°C
Diameter	6.1mm nominal	6.0 mm nominal	6.0 mm nominal
Flame Test		FT4	
Electrical @ 20°C			
Characteristic:			
Impedance	100 Ω ±15 Ω @ 100MHz		
Capacitance	330pF/km		
Conductor Loop Resistance	29/Ω100m maximum	26Ω /km	
Skew	45 nsec/100m @ 100MHz		
PoE Standard:	IEEE 802.3af (2 pair)	IEEE 802.3bt, Type 4 (4 pair) 4PoE++	IEEE 802.3bt, Type 4 (4 pair) 4PoE++
Power rating	12.95W	71W	71W
Current rating	350mA	960mA	1500mA
Voltage rating (DC)	44-57V	41.1V-57V	72V
Mechanical Characteristics			
Minimum Tensile Strength of Jacket (kgf/mm^2)		1.05	
Maximum Length for Strip of Jacket (mm)		40	

Cable construction - CAT 5e



Polyurethane (PUR) Jacket

Cable construction - Cat 6a & Cat 8



Polyvinyl Chloride (PVC) Jacket

RJ45 Plug	Cat 5e & PoE	Cat 6a	Cat 8
Materials			
Moulding	Polycarbonate	Polycarbonate	Polycarbonate
Shielding			Zinc Alloy
Flammability	UL94V-0	UL94V-0	UL94V-2
Contact material	Phosphor Bronze	Phosphor Bronze	Phosphor Bronze
Contact plating	50-micron gold	50-micron gold	50-micron gold
Operating Temperature	–40°C to +70°C	–40°C to +70°C	–20°C to +60°C
Mating cycles	1,000 cycles	1,000 cycles	1,200 cycles
RoHS	Compliant	Compliant	Compliant
Electrical			
No. Conductors	8	8	8
Conductor types	24-28AWG, solid or multistranded	24-28AWG, solid or multistranded	26AWG, multistranded (pre-terminated)
Current rating	350mA	1500mA	1500mA
Voltage rating	37V AC, 57V DC	30V AC, 42V DC	72V DC
Contact resistance	10mΩ	10mΩ	20mΩ max.

Cat 8 (Keystone)

Materials	
Coupler Shell	Zinc
Coupler Plating	Nickel
Moulding	PC
IDC Housing	PC
IDC Cap	PC + glass fibre
IDC Terminal	Tin plated Phosphor Bronze
Ground Contact	Stainless steel, Copper foil
Tie wrap	Nylon 6/6
Flammability	UL94V-2
Contact material	Phosphor Bronze
Contact plating	50-micron gold
Operating Temperature	-10°C to +60°C
Mating cycles - Jack	>750 cycles
Mating cycles - IDC	>20 terminations
RoHS	Compliant
Electrical	
No. Conductors	8
Current rating	1.5A
Voltage rating	100V DC
Dielectric Withstand	1000V DC/AC @ 60hz for 1 minute
Contact resistance	10mΩ max.

RJ45 Coupler	Cat 5e	Cat 6a
Materials		
Coupler Shell	Copper Alloy	Copper Alloy
Coupler Plating	Nickel	Nickel
Moulding	PBT	PBT
Flammability	UL94V-0	UL94V-0
Contact material	Phosphor Bronze	Phosphor Bronze
Contact plating	50 micron gold	50 micron gold
Operating Temperature	–40°C to +70°C	0°C to +70°C
Mating cycles	1,000 cycles	1,000 cycles
RoHS	Compliant	Compliant
Electrical		
No. Conductors	8	8
Current rating	1.5A	1.5A
Voltage rating	30V AC, 42V DC	30V AC, 42V DC
Contact resistance	10mΩ max.	10mΩ max.

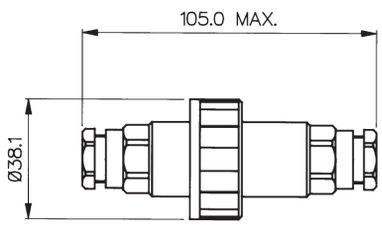
RJ45 PCB Connector	Cat 5e
Materials	
Coupler Shell	Copper Alloy
Coupler Plating	Nickel
Moulding	PBT
Flammability	UL94V-0
Contact material	Phosphor Bronze
Contact plating	50 micron gold
PC Plugs	Tin plated
Operating Temperature	–40°C to +70°C
Mating cycles	1,000 cycles
RoHS	Compliant
Electrical	
No. Conductors	8
Current rating	1.5A
Voltage rating	30V AC, 42V DC
Contact resistance	10mΩ max.

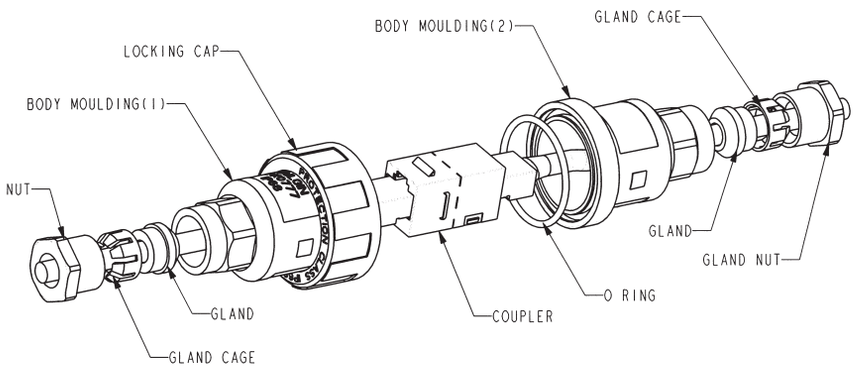
Cable Joiner



PX0777

- IP68 Rating
- For Sealed Inline RJ45 Connections
- Supplied Complete with Coupler
- Shielded (STP) & Unshielded (UTP) versions
- Cat5e Shielded Coupler also available
- Cable Range 3.5 - 8mm (with glands supplied)





Specifications	PX0777/UTP	PX0777/STP	PX0777/CAT5ESTP	PX0777/CAT6ASTP
Rating:	1.5A, 30V AC, 42V DC	1.5A, 30V AC, 42V DC	1.5A, 30V AC, 42V DC	1.5A, 30V AC, 42V DC
No. of Conductors:	8	8	8	8
Coupler Type:	Unshielded	Shielded	Shielded CAT5e performance	Shielded CAT6a performance
Cable Range:	3.5 - 8mm With glands supplied: 3.5 - 5mm (Blue) 5 - 7mm (Green) 6 - 8mm (Red)	3.5 - 8mm With glands supplied: 3.5 - 5mm (Blue) 5 - 7mm (Green) 6 - 8mm (Red)	3.5 - 8mm With glands supplied: 3.5 - 5mm (Blue) 5 - 7mm (Green) 6 - 8mm (Red)	3.5 - 8mm With glands supplied: 3.5 - 5mm (Blue) 5 - 7mm (Green) 6 - 8mm (Red)
Material:	Glass Filled Polyamide UL94V-0	Glass Filled Polyamide UL94V0	Glass Filled Polyamide UL94V0	Glass Filled Polyamide UL94V0
Sealing:	IP68 to BSEN 60529:1992+A2:2013 (10m depth for 2 weeks)	IP68 to BSEN 60529:1992+A2:2013 (10m depth for 2 weeks)	IP68 to BSEN 60529:1992+A2:2013 (10m depth for 2 weeks)	IP68 to BSEN 60529:1992+A2:2013 (10m depth for 2 weeks)
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Operating Temp Range:	–20°C to +70°C	–20°C to +70°C	–20°C to +70°C	–20°C to +70°C
Colour:	Black	Black	Black	Black
RoHS	Compliant	Compliant	Compliant	Compliant

Standard Buccaneer - HDMI



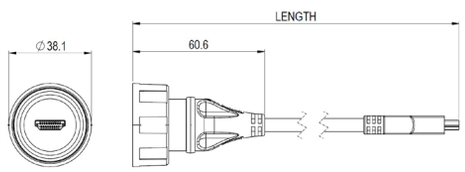
- IP68 when mated, Tested in accordance with EN60529:1992+A2:2013
- IP69K when mated, Tested in accordance with DIN 40050/Part 9 IP69k
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- HDMI 2.1 Performance
- Shielded system
- Single and double ended cables
- Screw coupling
- Resolutions and refresh rates of 8K at 60Hz and 4K at 120Hz
- Hot pluggable, standard 19 contact interface
- Alignment indicator reduces risk of damage during mating
- High noise immunity and EMI protection
- Secure, proven locking system
- Direct mounting or via adaptor leads
- Plug and play capability

Sealed HDMI Cables - Single Ended



PX0867

- Single ended sealed cable assembly
- IP68 HDMI connector to standard HDMI connector
- Mates with all panel mount connectors
- Available in 2m, 3m & 5m lengths



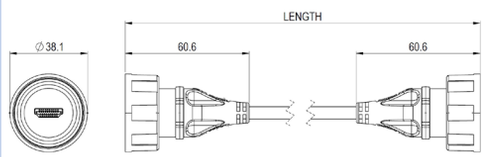
Part no.	Length	Description
PX0867/2M00	2m	IP68 HDMI male to standard HDMI male
PX0867/3M00	3m	IP68 HDMI male to standard HDMI male
PX0867/5M00	5m	IP68 HDMI male to standard HDMI male

Sealed HDMI Cables - Double Ended



PX0868

- Double ended sealed cable assembly
- IP68 HDMI connector to IP68 HDMI connector
- Mates with all panel mount connectors
- Available in 2m, 3m & 5m lengths



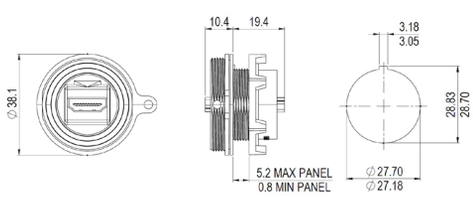
Part no.	Length	Description
PX0868/2M00	2m	IP68 HDMI male to IP68 HDMI male
PX0868/3M00	3m	IP68 HDMI male to IP68 HDMI male
PX0868/5M00	5m	IP68 HDMI male to IP68 HDMI male

Front Panel Mounting Connector



PX0863

- PX0863 – HDMI IP68 connector
- Female HDMI connector at rear of panel
- Mates with PX0867 and PX0868 cable connectors



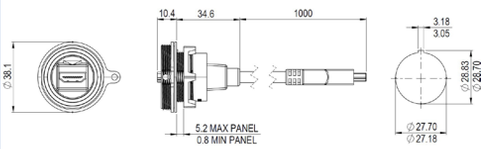
Part no.	Description
PX0863	IP68 HDMI female, front panel mounted. Sealed HDMI at front of panel, standard HDMI type at rear

Front Panel Mounting Connector



PX0863/1M00

- PX0863/1M00 – HDMI IP68 connector with 1m HDMI male lead at rear of panel
- Mates with PX0867 and PX0868 cable connectors



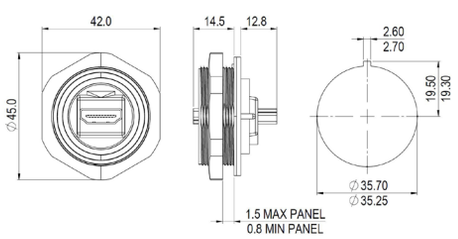
Part no.	Length	Description
PX0863/1M00	1m	IP68 HDMI female with 1m lead, front panel mounted, sealed HDMI at front of panel, standard HDMI at rear

Rear Panel Mounting Connector



PX0869

- PX0869 – HDMI IP68 connector
- Female HDMI connector at rear of panel
- Mates with PX0867 and PX0868 cable connectors



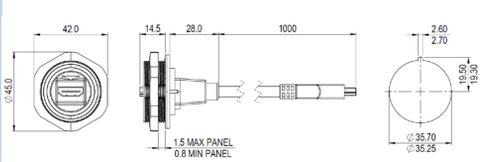
Part no.	Description
PX0869	IP68 HDMI female, rear panel mounted, sealed HDMI at front of panel, standard HDMI type at rear

Rear Panel Mounting Connector



PX0869/1M00

- PX0869/1M00 – HDMI IP68 connector with 1m HDMI male lead at rear of panel
- Mates with PX0867 and PX0868 cable connectors



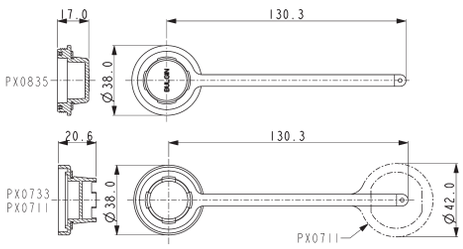
Part no.	Length	Description
PX0869/1M00	1m	IP68 HDMI female, with 1m lead, rear panel mounted, sealed HDMI at front of panel, standard HDMI at rear

Accessories



Sealing Caps

- Sealing caps to maintain IP68 rating when connectors are not in use
- PX0835 for cable connectors PX0867 & PX0868
- PX0733 for front panel mount connectors PX0863, PX0863/1M00
- PX0711 for rear panel mount connectors PX0869, PX0869/1M00



Part no.	Description
PX0835	Sealing Cap for cable connectors (PX0867, PX0868)
PX0733	Sealing Cap for front panel mounting connector (PX0863, PX0863/1M00)
PX0711	Sealing Cap for rear panel mounting connector (PX0869, PX0869/1M00)

Cables & connectors

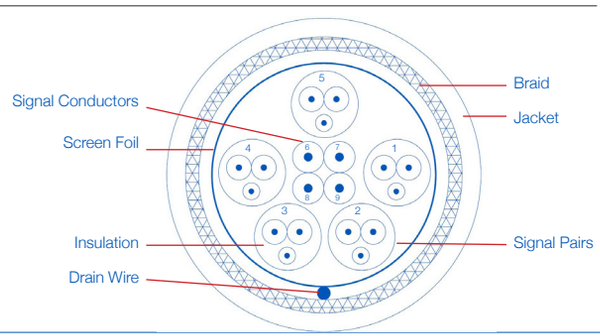
Mechanical	
Sealing	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
Operating temperature	-25°C to +80°C
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Electrical	
No. of Contacts	19
Current rating	0.5A
Voltage rating	30V AC (RMS)
Contact resistance	40m Ω max.
Withstanding Voltage	500V AC RMS
Performance	Ultra High Speed HDMI™ Cable with Ethernet

Materials - Overmoulded	
Overmould material	PVC (black)
Flammability rating	UL94V-0

Materials - Re-wireable and Panel Connectors	
Shell material	Steel
Shell plating	Nickel
Contact material	Brass
Contact plating	Tin & Gold
Connector body & locking ring	Glass Loaded Polyester
Panel connector	Acetal
Flammability rating	UL94 HB
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - square	Neoprene
Mating cycles	1,000
RoHS	Compliant

Materials - cable			
Cable Jacket		PVC (black)	
Braid		Aluminium-Magnesium Alloy	
Screen Foil		Aluminium Foil	
Insulation		HDPE and F-PE	
Drain Wire		Tin-Copper Alloy	
Flammability Rating		UL94V-0	
Length:	Dia	Conductors Signal	Conductors Power
2m	6.0mm	4 x 30AWG	5 x 30AWG
3m	6.0mm	4 x 30AWG	5 x 30AWG
5m	7.3mm	1 x 28AWG 3 x 30AWG	4 x 28AWG 1 x 32AWG

Cable construction - PX0867, PX0868



Standard Buccaneer - USB



- IP68 when mated, tested in accordance with EN60529:1992+A2:2013
- IP69K when mated, tested in accordance with DIN 40050/Part 9 IP6k9k
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- USB version 2.0 and 3.0 performance
- Shielded system
- Single and double ended cables
- Screw coupling
- PCB mounted panel connector
- High-speed bus connection,
  USB 2.0: up to 480Mbps
  USB 3.0: up to 5Gbps
- Hot pluggable, USB 2.0 with 4 contact interface,
  USB 3.0 with 9 contact interface
- Alignment indicator reduces risk of damage during mating
- High noise immunity and EMI protection
- Suitable for PC and peripheral configuration
- Secure, proven locking system
- Direct mounting or via adaptor leads
- Plug and play capability

Standard Buccaneer - USB

Sealed USB Cables - Single Ended



PX0840/A

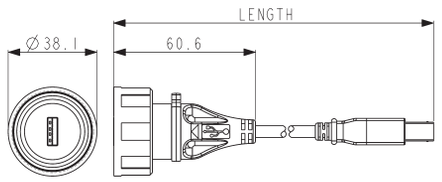


PX0840/B

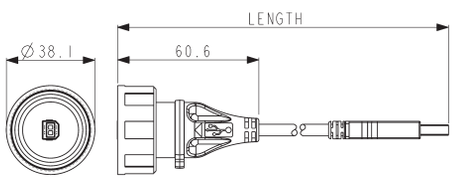


PX0840/AA

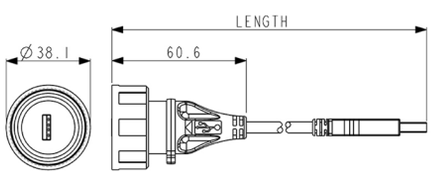
- Single ended sealed cable assembly
- IP68 ‘A’ type USB 2.0 connector to standard ‘A’ or ‘B’ type USB 2.0 connector
- IP68 ‘B’ type USB 2.0 connector to standard ‘A’ type USB 2.0 connector
- IP68 ‘A’ type USB 3.0 connector to standard USB 3.0 ‘A’ type connector
- Mates with all panel mount connectors
- USB 2.0 variants available in 2m, 3m & 5m lengths
- USB 3.0 variants available in 1m, 2m & 3m lengths



PX0840/A/xMxx



PX0840/B/xMxx



PX0840/AA/xMxx

Part no.	Length	Description
PX0840/A/2M00	2m	IP68 A type USB 2.0 to standard B type USB 2.0
PX0840/A/3M00	3m	IP68 A type USB 2.0 to standard B type USB 2.0
PX0840/A/5M00	5m	IP68 A type USB 2.0 to standard B type USB 2.0
PX0840/B/2M00	2m	IP68 B type USB 2.0 to standard A type USB 2.0
PX0840/B/3M00	3m	IP68 B type USB 2.0 to standard A type USB 2.0
PX0840/B/5M00	5m	IP68 B type USB 2.0 to standard A type USB 2.0
PX0840/AA/2M00	2m	IP68 A type USB 2.0 to standard A type USB 2.0
PX0840/AA/3M00	3m	IP68 A type USB 2.0 to standard A type USB 2.0
PX0840/AA/5M00	5m	IP68 A type USB 2.0 to standard A type USB 2.0
PX0840/A3/1M00	1m	IP68 A type USB 3.0 to standard A type USB 3.0
PX0840/A3/2M00	2m	IP68 A type USB 3.0 to standard A type USB 3.0
PX0840/A3/3M00	3m	IP68 A type USB 3.0 to standard A type USB 3.0

Sealed USB Cables Double Ended

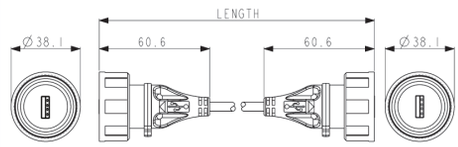


PX0841/AA

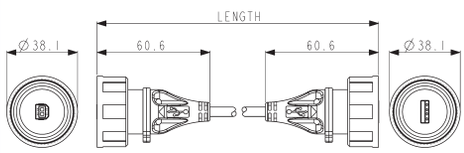


PX0841/AB

- Double ended sealed cable assembly
- IP68 ‘A’ type USB 2.0 connector to IP68 ‘A’ or ‘B’ type USB 2.0 connector
- IP68 ‘A’ type USB 3.0 connector to IP68 ‘A’ type USB 3.0 connector
- Mates with all panel mount connectors
- USB 2.0 variants available in 2m, 3m & 5m lengths
- USB 3.0 variants available in 1m, 2m & 5m lengths



PX0841/AA/xMxx



PX0841/AB/xMxx

Part no.	Length	Description
PX0841/AB/2M00	2m	IP68 A type USB 2.0 to IP68 B type USB 2.0
PX0841/AB/3M00	3m	IP68 A type USB 2.0 to IP68 B type USB 2.0
PX0841/AB/5M00	5m	IP68 A type USB 2.0 to IP68 B type USB 2.0
PX0841/AA/2M00	2m	IP68 A type USB 2.0 to IP68 A type USB 2.0
PX0841/AA/3M00	3m	IP68 A type USB 2.0 to IP68 A type USB 2.0
PX0841/AA/5M00	5m	IP68 A type USB 2.0 to IP68 A type USB 2.0
PX0841/A3/1M00	1m	IP68 A type USB 3.0 to IP68 A type USB 3.0
PX0841/A3/2M00	2m	IP68 A type USB 3.0 to IP68 A type USB 3.0
PX0841/A3/3M00	3m	IP68 A type USB 3.0 to IP68 A type USB 3.0

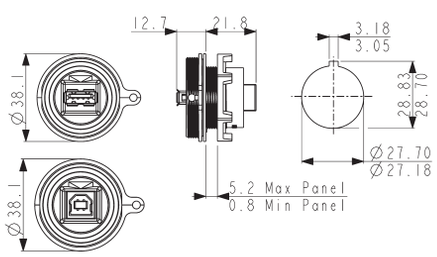
Front Panel Mounting Connector



PX0842/B

PX0842/A

- PX0842/A – USB 2.0 ‘A’ type IP68 to USB 2.0 ‘B’ type connector
- PX0842/AA – USB 2.0 ‘A’ type IP68 to USB 2.0 ‘A’ type connector
- PX0842/A3 – USB 3.0 ‘A’ type IP68 to USB 3.0 ‘A’ type connector
- PX0842/B – USB 2.0 ‘B’ type IP68 to USB 2.0 ‘A’ type connector
- Mates with PX0840 and PX0841 cable connectors



Part no.	Description
PX0842/A	IP68 A type USB 2.0, front panel mounted. Sealed A type at front of panel, standard B type at rear
PX0842/B	IP68 B type USB 2.0, front panel mounted. Sealed B type at front of panel, standard A type at rear
PX0842/AA	IP68 A type USB 2.0, front panel mounted. Sealed A type at front of panel, standard A type at rear
PX0842/A3	IP68 A type USB 3.0, front panel mounted. Sealed A type at front of panel, standard A type at rear

Standard Buccaneer - USB

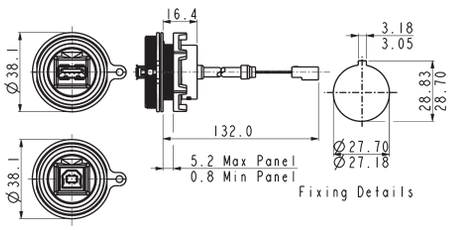
Front Panel Mounting Connector



PX0843/B

PX0843/A

- PX0843/A – USB 2.0 ‘A’ type IP68 connector with 5-way crimp connector
- PX0843/B – USB 2.0 ‘B’ type IP68 connector with 5-way crimp connector
- PX0843/A3 – USB 3.0 ‘A’ type IP68 connector with 10-way crimp connector
- Mates with PX0840 and PX0841 cable connectors



Part no.	Description
PX0843/A	IP68 A type USB 2.0, front panel mounted. Sealed A type at front of panel, 5 way crimp connector at rear.
PX0843/B	IP68 B type USB 2.0, front panel mounted. Sealed B type at front of panel, 5 way crimp connector at rear.
PX0843/A3	IP68 A type USB 3.0, front panel mounted. Sealed A type at front of panel, 10-way crimp connector at rear
PX0460/A	As PX0843/A with exposed braid for use with PX0465 screening can
PX0460/B	As PX0843/B with exposed braid for use with PX0465 screening can
PX0460/A3	As PX0843/A3 with exposed braid for use with PX0465 screening can

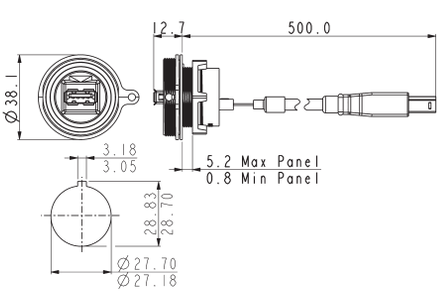
Front Panel Mounting Connector



PX0844/B

PX0844/A

- IP68 Sealed through panel
- PX0844/A – USB 2.0 ‘A’ type IP68 connector
- PX0844/B – USB 2.0 ‘B’ type IP68 connector
- PX0844/A3 – USB 3.0 ‘A’ type IP68 connector
- Standard USB interface plug options to rear of panel
- 0.5m standard cable length, other lengths available
- Mates with PX0840 and PX0841 cable connectors



Part no.	Length	Description
PX0844/A/0M50/A	0.5m	IP68 A type USB 2.0, sealed through panel, Sealed ‘A’ type at front of panel, standard ‘A’ type at rear
PX0844/A/0M50/B	0.5m	IP68 A type USB 2.0, sealed through panel, Sealed ‘A’ type at front of panel, standard ‘B’ type at rear
PX0844/B/0M50/A	0.5m	IP68 B type USB 2.0, sealed through panel, Sealed ‘B’ type at front of panel, standard ‘A’ type at rear
PX0844/B/0M50/B	0.5m	IP68 B type USB 2.0, sealed through panel, Sealed ‘B’ type at front of panel, standard ‘B’ type at rear
PX0844/A3/0M50/A3	0.5m	IP68 B type USB 3.0, sealed through panel, Sealed ‘A’ type at front of panel, standard ‘A’ type at rear

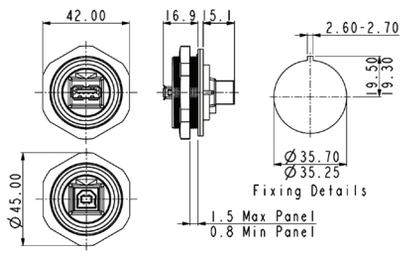
Rear Panel Mounting Connector



PX0848/B

PX0848/A

- PX0848/A – USB 2.0 ‘A’ type IP68 to USB 2.0 ‘B’ type connector
- PX0848/B – USB 2.0 ‘B’ type IP68 to USB 2.0 ‘A’ type connector
- PX0848/A3 – USB 3.0 ‘A’ type IP68 to USB 3.0 ‘A’ type connector
- Mates with PX0840 and PX0841 cable connectors



Part no.	Description
PX0848/A	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, standard B type at rear
PX0848/B	IP68 B type USB 2.0, rear panel mounted. Sealed B type at front of panel, standard A type at rear
PX0848/AA	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, standard A type at rear
PX0848/A3	IP68 A type USB 3.0, rear panel mounted. Sealed A type at front of panel, standard A type at rear

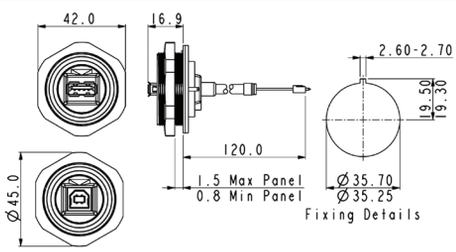
Rear Panel Mounting Connector



PX0849/B

PX0849/A

- PX0849/A - USB 2.0 ‘A’ type IP68 connector with 5-way crimp connector
- PX0849/B - USB 2.0 ‘B’ type IP68 connector with 5-way crimp connector
- PX0849/A3 - USB 3.0 ‘B’ type IP68 connector with 10-way crimp connector
- Mates with PX0840 and PX0841 cable connectors



Part no.	Description
PX0849/A	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, 5-way header at rear
PX0849/B	IP68 B type USB 2.0, rear panel mounted. Sealed B type at front of panel, 5-way header at rear
PX0849/A3	IP68 A type USB 3.0, rear panel mounted. Sealed A type at front of panel, 10-way header at rear

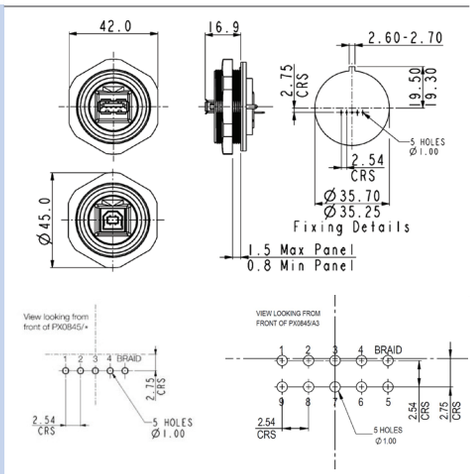
PCB Panel Mounting Connector- PCB DIrect Mount



PX0845/B

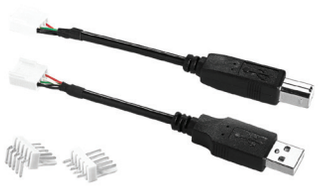
PX0845/A

- PX0845/A – USB 2.0 ‘A’ type IP68 connector
- PX0845/B – USB 2.0 ‘B’ type IP68 connector
- PX0845/A3 – USB 3.0 ‘A’ type IP68 connector
- PCB contacts at rear
- Direct PCB mount
- Mates with PX0840 and PX0841 cable connectors

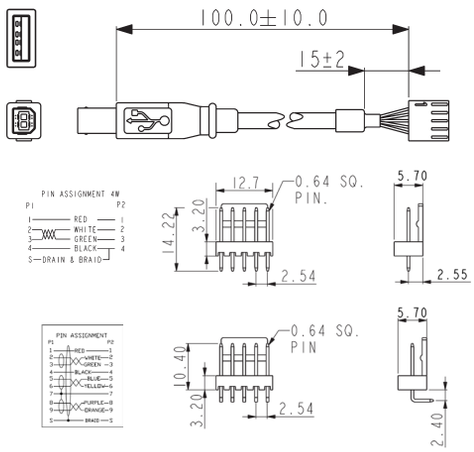


Part no.	Description
PX0845/A	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear
PX0845/B	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear
PX0845/A3	IP68 A type USB 3.0, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear

PCB Adaptor Leads



- Standard A and B type USB 2.0 connectors to 5-way crimp adaptor leads
- 5 way-headers, 2.54mm pitch, horizontal or vertical mounting
- Standard A type USB 3.0 to 10-way crimp adaptor leads

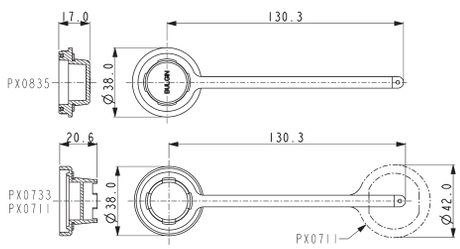


Part no.	Description
14193	USB 2.0 ‘A’ type to 5-way crimp connector
14194	USB 2.0 ‘B’ type to 5-way crimp connector
100286	USB 3.0 ‘A’ type to 10-way crimp connector
14191	5-way PCB header straight
14192	5-way PCB header right angle
100287	10-way PCB header straight
100288	10-way PCB header right angle

Accessories



- Sealing caps to maintain IP68 rating when connectors are not in use
- PX0835 for cable connectors PX0840 & PX0841
- PX0733 for front panel mount connectors PX0842, PX0843 & PX0844
- PX0711 for rear panel mount connectors PX0848, PX0849 & PX0845



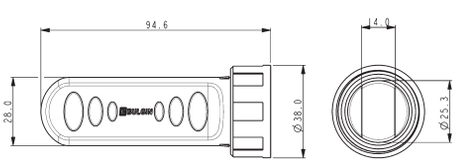
Part no.	Description
PX0835	Sealing Cap for cable connectors (PX0840, PX0841)
PX0733	Sealing Cap for front panel mounting connector (PX0842, PX0843 & PX0844)
PX0711	Sealing Cap for rear panel mounting connector (PX0848, PX0849, PX0845)

USB Flash Drive Cover



PX0852

- For use with USB Flash Drives
- Maintains IP68 rating when mated with panel connector
- For use with ‘A’ type connectors: PX0842, PX0843, PX0845, PX0848 & PX0849
- Internal accommodation 17.5 x 14.0 x 83mm approx.

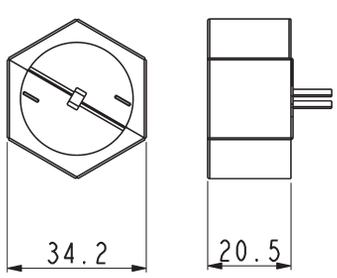


Screening Can



PX0465

- Maintains cable screening directly to panel
- Screening can clips around the panel fixing nut
- For use on PX0460/A, PX0460/B and PX0360/A3



Standard Buccaneer - USB

USB 2.0 Specifications

Cables & connectors

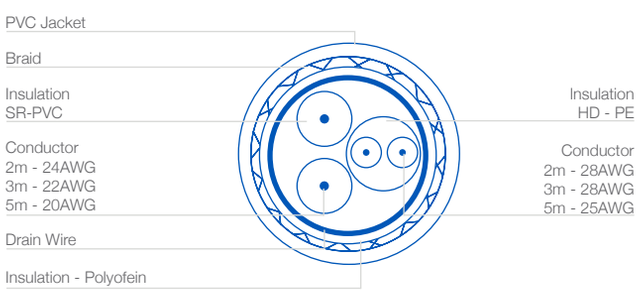
Mechanical	
Sealing	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)
	IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
Operating temperature	0°C to +70°C
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Electrical	
No. of Contacts	4
Current rating	1A
Voltage rating	30V AC (RMS)
Contact resistance	30m Ω max.
Performance	USB version 2.0
Materials - Overmoulded	
Overmould material	PVC (black)
Flammability rating	UL94V-0
Materials - Re-wireable and Panel Connectors	
Shell material	Steel
Shell plating	Nickel
Contact material	Copper Alloy
Contact plating	30 micro inch Gold
Connector body & locking ring	Glass Loaded Polyester
Panel connector	Acetal
Flammability rating	UL94 HB
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - square	Neoprene
Mating cycles	1,000
RoHS	Compliant
Materials - cable	
Cable Jacket	PVC (black)
Screen	Tinned copper braid
Flammability	UL94V-0
RoHS	Compliant

Length:	Dia	Conductors Signal	Conductors Power
2m	4.8mm	2 x 28AWG	2 x 24AWG
3m	5.0mm	2 x 28AWG	2 x 22AWG
5m	5.2mm	2 x 25AWG	2 x 20AWG

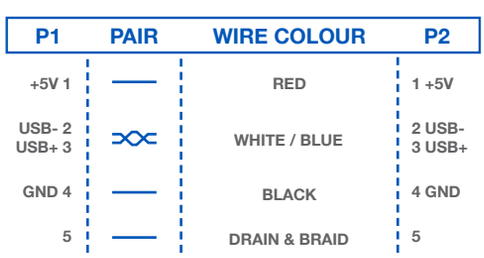
PCB adaptor leads

Electrical	
No. of conductors	4
Current rating	1A
Voltage rating	30V AC (RMS)
Contact resistance	<10m Ω max.
PCB pitch	2.54mm
Materials	
Moulding	Polycarbonate
Flammability	UL94V-0
Contact material	Copper Alloy
Contact plating	30 micro inch Gold
Wire insulation	PVC (black)
Conductors	4 x 28AWG
Operating temperature	0°C to +70°C
Mating cycles	1,000
RoHS	Compliant

USB 2.0 Cable construction - PX0840, PX0841



USB 2.0 Contact Diagram - PX0843 & PX0849



Standard Buccaneer - USB

USB 3.0 Specifications

Cables & connectors

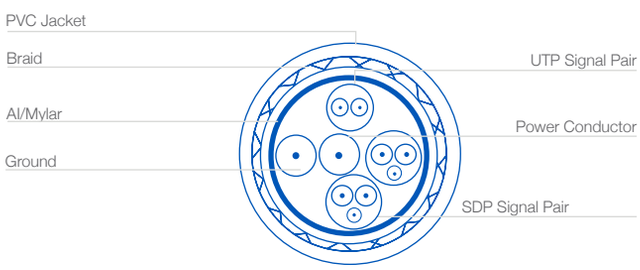
Mechanical	
Sealing	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)
	IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
Operating temperature	0°C to +70°C
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Electrical	
No. of Contacts	9
Current rating	1A
Voltage rating	30V AC (RMS)
Contact resistance	30m Ω max.
Performance	USB version 3.0
Materials - Overmoulded	
Overmould material	PVC (black)
Flammability rating	UL94V-0
Materials - Re-wireable and Panel Connectors	
Shell material	Steel
Shell plating	Nickel
Contact material	Copper Alloy
Contact plating	Gold
Connector body & locking ring	Glass Loaded Polyester
Panel connector	Acetal
Flammability rating	UL94 HB
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - square	Neoprene
Mating cycles	1,000
RoHS	Compliant
Materials - cable	
Cable Jacket	PVC (black)
Screen	Tinned copper braid
Flammability	UL94V-0
RoHS	Compliant

Length:	Dia	Conductors Signal	Conductors Power
1m	5.5mm	7 x 28AWG	2 x 24AWG
2m	5.5mm	7 x 28AWG	2 x 24AWG
3m	5.5mm	7 x 28AWG	2 x 24AWG

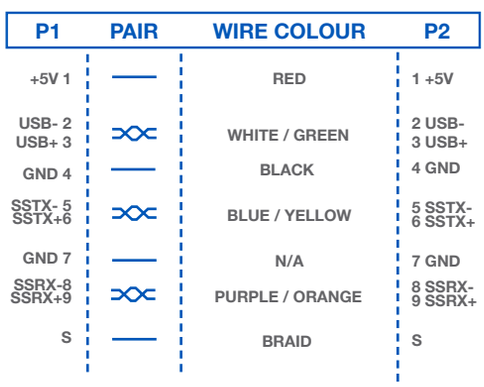
PCB adaptor leads

Electrical	
No. of conductors	9
Current rating	1A
Voltage rating	30V AC (RMS)
Contact resistance	30m Ω max.
PCB pitch	2.54mm
Materials	
Moulding	Polycarbonate
Flammability	UL94V-0
Contact material	Copper Alloy
Contact plating	Gold
Wire insulation	PVC (black)
Flammability	UL94-V0
Conductors	9 x 28AWG
Operating temperature	0°C to +70°C
Mating cycles	1,000
RoHS	Compliant

USB 3.0 Cable construction - PX0840/A3, PX0841/A3



USB 3.0 Contact Diagram - PX0843/A3 & PX0849/A3



AO Series Active Optical USB

Active Optical



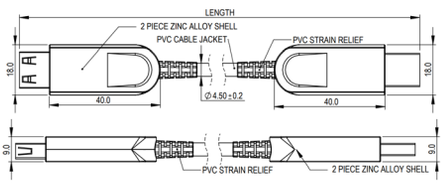
- Hybrid optical cable with fibre and copper
- High speed and long length USB 3.2 cables
- No loss of signal and reduced EMI/RFI
- Plug and Play
- Flammability VW-1 rated
- Available in custom lengths up to specified range(30m or 50m)*

AO A-A Extension Cable



AOUS1/XXX

- Active Optical USB 3.2 Gen1 Cable, A Male to A Female with PVC Jacket
- Available in lengths: 10, 20, and 30m
- USB 3.0 type A cable extension
- Up to 5Gbps



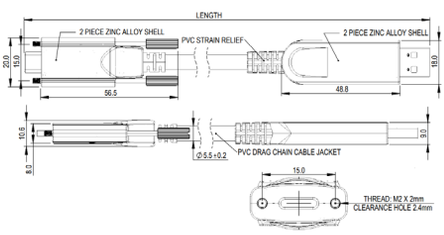
Part no.	Length	Description
AOUS1/010	10m	USB 3.2 Gen1 Active Optical Cable, A male to A female PVC jacket
AOUS1/020	20m	USB 3.2 Gen1 Active Optical Cable, A male to A female PVC jacket
AOUS1/030	30m	USB 3.2 Gen1 Active Optical Cable, A male to A female PVC jacket

AO Drag Chain A-C Screw Cable



AOUS2/XXX

- Active Optical USB 3.2 Gen2 Cable, A Male to C Male, Drag Chain Jacket with Screws
- Available in lengths: 5, 8, 10, 15, 20, and 30m
- Secure screw lock design
- Braided cable jacket for drag chain applications
- Up to 10Gbps



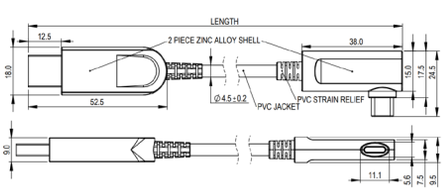
Part no.	Length	Description
AOUS2/005	5m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/080	8m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/010	10m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/015	15m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/020	20m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/030	30m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws

AO Drag Chain A-C 90° Cable



AOUS3/XXX

- Active Optical USB 3.2 Gen2 Cable, A Male to C Male, PVC Jacket Right Angle
- Available in lengths: 5m, 8m, 10m, 15m, 20m, and 30m
- 90-degree angle design for limited space connections
- Up to 10Gbps



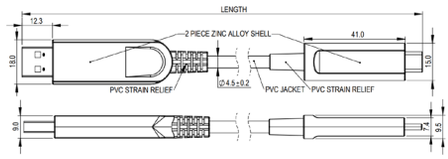
Part no.	Length	Description
AOUS3/005	5m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/008	8m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/010	10m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/015	15m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/020	20m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/030	30m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle

AO A-C Cable



AOUS4/XXX

- Active Optical USB 3.2 Gen2 Cable, A male to C male PVC jacket no screw
- Available in lengths: 5m, 8m, 10m, 15m, 20m, and 30m
- Up to 10Gbps



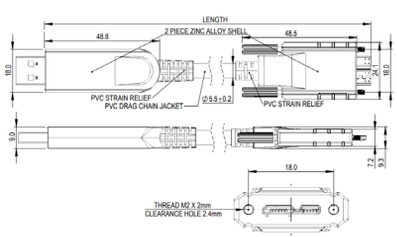
Part no.	Length	Description
AOUS4/005	5m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/008	8m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/010	10m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/015	15m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/020	20m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/030	30m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws

AO Drag Chain A-Micro B Screw Cable



AOUS6/XXX

- USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket w/ screw
- Available in lengths: 5m, 8m, 10m, 15m, 20m, and 30m
- Secure screw lock design
- Braided cable jacket for drag chain applications
- Up to 5Gbps



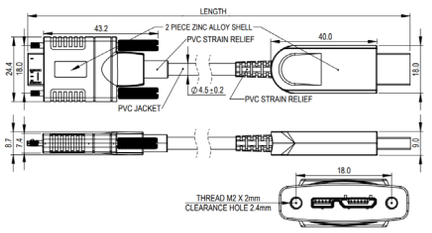
Part no.	Length	Description
AOUS6/005	5m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/008	8m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/010	10m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/015	15m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/020	20m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/030	30m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws

AO A-Micro B Screw Cable



AOUS7/XXX

- USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
- Available in lengths: 5m, 8m, 10m, 15m, 20m, and 30m
- Secure screw lock design
- Braided cable jacket for drag chain applications
- Up to 5Gbps



Part no.	Length	Description
AOUS7/005	5m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/080	8m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/010	10m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/015	15m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/020	20m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/030	30m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws

Product Configuration Table

Product	Type	Terminations	Angle	Screws	Cable Jacket	Available Lengths
AOUS1	USB	Male A to Female A	Straight	No	PVC Normal Jacket	10m, 20m, and 30m
AOUS2	USB	Male A to Male C	Straight	Yes	PVC Optimised for Drag Chain jacket (Braided PVC)	5m, 8m, 10m, 15m, 20m, 30m
AOUS3	USB	Male A to Male C	Right angle	No	PVC Normal Jacket	5m, 8m, 10m, 15m, 20m, 30m
AOUS4	USB	Male A to Male C	Straight	No	PVC Normal Jacket	5m, 8m, 10m, 15m, 20m, 30m
AOUS5	USB	Male A to Male Micro B	Right angle	Yes	PVC Optimised for Drag Chain jacket (Braided PVC)	5m, 8m, 10m, 15m, 20m, 30m
AOUS6	USB	Male A to Male Micro B	Straight	Yes	PVC Optimised for Drag Chain jacket (Braided PVC)	5m, 8m, 10m, 15m, 20m, 30m
AOUS7	USB	Male A to Male Micro B	Straight	Yes	PVC Normal Jacket	5m, 8m, 10m, 15m, 20m, 30m

Electrical	
Voltage MIN/MAX Absolute	-0.5V / 5.5V
Voltage Supply MIN/TYP/MAX	4.75V / 5.00V / 5.25V
Power Consumption	≤ 0.5W
Differential Impedance	90Ω
Performance	
Fibre Mode	Multimode

Optical	
Optical Transceiver	850nm VCSEL (Multimode)
TX Random Jitter	3ps
TX Deterministic Jitter	60ps
Total Jitter at a 10-12 BER	100ps
RX Sensitivity MIN	-7.5dBm
AC Coupling Capacitor RXOUT	MIN 75nF, TYP 100nF, MAX 200nF

Material	
Connector Shell material	Zinc Alloy
Jacket Material	PVC

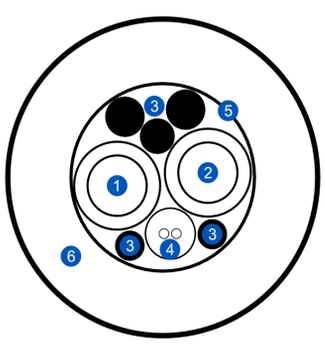
Dimensions	
Minimum bend radius	25mm

Safety	
Flammability	VW-1
Environment Protection	ROHS
Operating Temperature	0C to 50C
Storage Temperature	-20C to 85C
Humidity	10% to 85%

Individual Specifications							
Electrical	**AOUS1**	**AOUS2**	**AOUS3**	**AOUS4**	**AOUS5**	**AOUS6**	**AOUS7**
Connector Type Host End	USB A Male	USB A Male	USB A Male	USB A Male	USB A Male	USB A Male	USB A Male
Connector Type Device End	USB A Female	USB C Male	USB C Male	USB C Male	USB Micro B Male	USB Micro B Male	USB Micro B Male
Number of Contacts Host End	9	9	9	9	9	9	9
Number of Contacts Device End	9	24	24	24	10	10	10
Current at bus power MIN	49.5mA	49.5mA	49.5mA	49.5mA	750mA	750mA	49.5mA
Current at bus power TYP	55 mA	55 mA	55 mA	55 mA	800mA	800mA	55mA
Current at bus power MAX	60.5 mA	60.5 mA	60.5 mA	60.5 mA	850mA	850mA	60.5mA
Material	**AOUS1**	**AOUS2**	**AOUS3**	**AOUS4**	**AOUS5**	**AOUS6**	**AOUS7**
Jacket Type	Normal	Braided	Normal	Normal	Braided	Braided	Normal
Cable Diameter	4.5mm	5.5mm	4.5mm	4.5mm	5.5mm	5.5mm	4.5mm
Performance	**AOUS1**	**AOUS2**	**AOUS3**	**AOUS4**	**AOUS5**	**AOUS6**	**AOUS7**
Max Data Rate	5Gbps	10Gbps	10Gbps	10Gbps	5Gbps	5Gbps	5Gbps
Range	50m	30m	50m	50m	30m	30m	30m
Screw Lock Dimensions	N/A	M2 X 2mm	N/A	N/A	M2 X 2mm	M2 X 2mm	M2 X 2mm
Screw Spacing	N/A	15mm	N/A	N/A	18mm	18mm	18mm

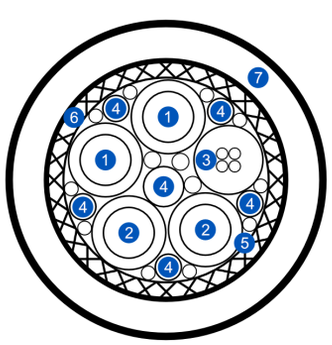
Cable construction

AOUS1, AOUS3, AOUS4, AOUS7



1. 18 AWG (red insulation)
2. 18 AWG (black insulation)
3. Filler
4. Fiber
5. Aluminium foil
6. Jacket

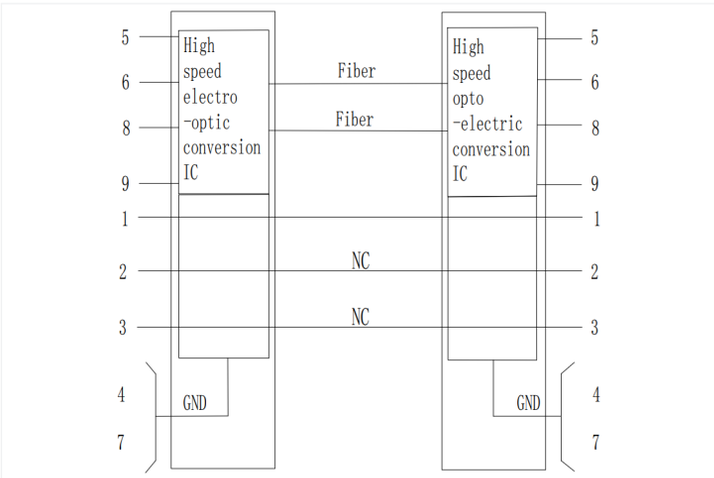
AOUS2, AOUS5, AOUS6



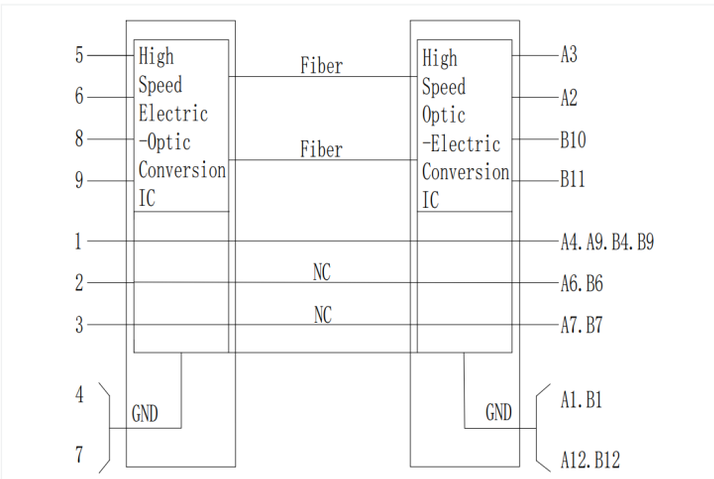
1. 21 AWG (red insulation)
2. 21 AWG (black insulation)
3. Fiber
4. Cotton
5. Filler
6. Braid
7. Jacket

Wiring

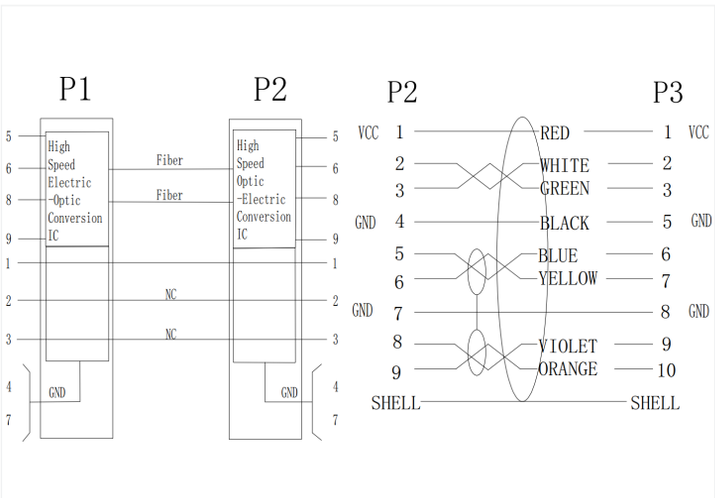
AOUS1, AOUS6, AOUS7



AOUS2, AOUS3, AOUS4



AOUS5



20 Series USB Waterproof - IP67 Connectors



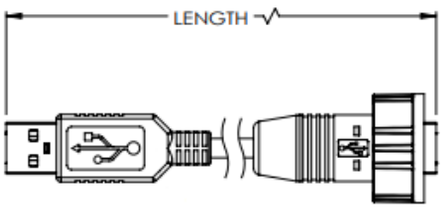
- .76µm (micrometer) gold contact plating for reliable and repeated connections
- IP67 rated (when mated or with Sealing Cap fitted)
- Connections including USB A, USB B, USB C, and Mini USB
- Molded backshells for durability
- Plastic and metal rear panel mount cable variants available
- Plastic and metal sealing caps available
- Standard lengths are 0.3, 0.5, 1, 2, 3, and 5 meters
- USB A Cable Assembly PXP0020 available to mate with USB A panel mount variants

Plastic Flex USB A to Standard USB A Cable Assembly



PXP0020/A/XMXX/A

- IP67 Male USB A to Male USB A
- IP67 when mated
- Mates with rear panel mount connectors PXP0023, PXM0023
- USB 2.0 Performance



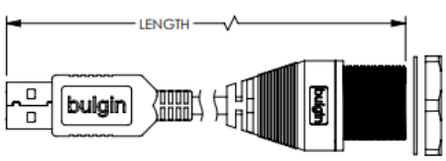
Part no.	Length	Description
PXP0020/A/0M50/A	0.5m	Flex USB A to Standard USB A Cable Assembly 0.5m
PXP0020/A/1M00/A	1m	Flex USB A to Standard USB A Cable Assembly 1m
PXP0020/A/2M00/A	2m	Flex USB A to Standard USB A Cable Assembly 2m
PXP0020/A/3M00/A	3m	Flex USB A to Standard USB A Cable Assembly 3m

Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly



PXP0023/A/XMXX/A

- IP67 Female USB A to Male USB A
- IP67 when mated or fitted with Sealing Cap PXP0024, PXM0024
- Plastic and metal Sealing Caps available
- Mates with Plastic Flex USB A to USB A Cable Assembly PXP0020
- USB 2.0 Performance



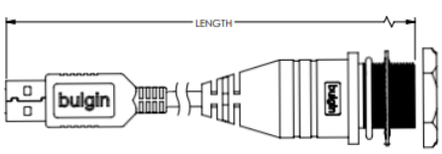
Part no.	Length	Description
PXP0023/A/0M30/A	0.3m	Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly 0.3m
PXP0023/A/0M50/A	0.5m	Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly 0.5m
PXP0023/A/1M00/A	1m	Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly 1m
PXP0023/A/2M00/A	2m	Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly 2m
PXP0023/A/3M00/A	3m	Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly 3m
PXP0023/A/5M00/A	5m	Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly 5m

Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly 5m



PXM0023/A/XMXX/A

- IP67 Female USB A to Male USB A
- IP67 when mated or fitted with Sealing Cap PXP0024, PXM0024
- Plastic and metal Sealing Caps available
- Mates with Plastic Flex USB A to USB A Cable Assembly PXP0020
- USB 2.0 Performance
- Unmated shielding maintained when used with metal Sealing Cap PXM0024



Part no.	Length	Description
PXP0023/A/0M50/A	0.5m	Metal Rear Panel Mount USB A Female to USB A Male Cable Assembly 0.5m
PXP0023/A/1M00/A	1m	Metal Rear Panel Mount USB A Female to USB A Male Cable Assembly 1m
PXP0023/A/2M00/A	2m	Metal Rear Panel Mount USB A Female to USB A Male Cable Assembly 2m
PXP0023/A/3M00/A	3m	Metal Rear Panel Mount USB A Female to USB A Male Cable Assembly 3m
PXP0023/A/5M00/A	5m	Metal Rear Panel Mount USB A Female to USB A Male Cable Assembly 5m

Rear Panel Mount USB A Female to Flying Leads



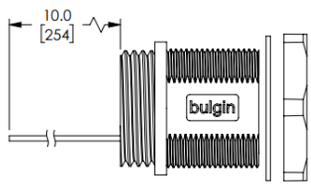
PXP0023/A/0M25/FL



PXP0023/B/0M25/FL

- IP67 Female USB A or Female USB B to 5x flying leads
- IP67 when mated or fitted with Sealing Cap PXP0024, PXM0024
- Flying leads 0.25m long
- 24AWG flying leads
- Plastic and metal Sealing Caps available
- USB A version PXP0023/A/0M25/FL mates with Plastic Flex USB A to USB A Cable Assembly PXP0020
- USB 2.0 Performance

Attention:
PXP0023/A/0M25/FL has non standard USB wiring, please refer to wiring table in specification.



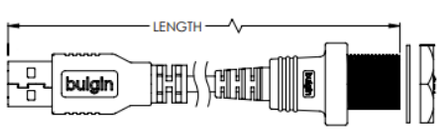
Part no.	Length	Description
PXP0023/A/0M25/FL	0.25m	Rear Panel Mount USB A Female to Flying Leads 0.25m
PXP0023/B/0M25/FL	0.25m	Rear Panel Mount USB B Female to Flying Leads 0.25m

Miniature Plastic Rear Panel Mount USB C Female to USB A Male Cable Assembly



PXP0025/C/1M00/A

- IP67 Female USB C to Male USB A
- IP67 when fitted with Miniature Sealing Cap PXP0026
- 1m length
- Overall aluminium+polyester shield plus tinned copper braid shield
- USB 3.0 Performance



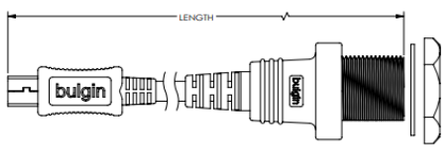
Part no.	Length	Description
PXP0025/C/1M00/A	1m	Miniature Plastic Rear Panel Mount USB C Female to USB A Male Cable Assembly 1m

Miniature Plastic Rear Panel Mount Mini USB Female to Mini USB Male Cable Assembly



PXP0025/MB/XMXX/MB

- IP67 Female Mini USB to Male Mini USB
- IP67 when fitted with Miniature Sealing Cap PXP0026
- Overall aluminized polyester shield with drain wire plus tinned copper braided shield
- USB 2.0 Performance



Part no.	Length	Description
PXP0025/MB/0M30/MB	0.3m	Miniature Plastic Rear Panel Mount Mini USB Female to Mini USB Male Cable Assembly 0.3m
PXP0025/MB/0M50/MB	0.5m	Miniature Plastic Rear Panel Mount Mini USB Female to Mini USB Male Cable Assembly 0.5m
PXP0025/MB/1M00/MB	1m	Miniature Plastic Rear Panel Mount Mini USB Female to Mini USB Male Cable Assembly 1m

Accessories

Sealing Caps

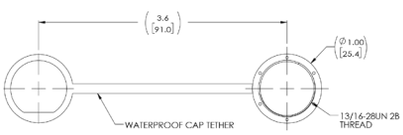
Metal Sealing Caps provide shielding when fitted to Metal Rear Panel Mount USB A Female to USB A Male Cable Assembly PXM0023/A/XMXX/A. As standard, all Sealing Caps are sold with a rubber lanyard, unless ordered with the part number PXP0024/CH, this variant comes with a chain lanyard with a 3.4mm diameter fixing loop, giving more options for attachment

Plastic Sealing Cap with Rubber Lanyard



PXP0024

- IP67 Plastic Sealing Cap
- IP67 when fitted
- Rubber lanyard
- Fits PXP0023 and PXM0023



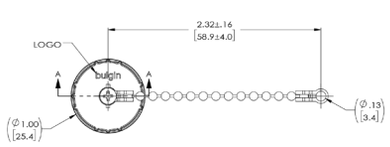
Part no.	Lanyard	Cap Material	Description
PXP0024	Rubber	Plastic	Plastic Sealing Cap with Rubber Lanyard

Plastic Sealing Cap with Chain Lanyard



PXP0024/CH

- IP67 Plastic Sealing Cap
- IP67 when fitted
- Metal chain lanyard
- Fits PXP0023 and PXM0023



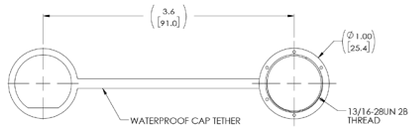
Part no.	Lanyard	Cap Material	Description
PXP0024/CH	Metal Chain	Plastic	Plastic Sealing Cap with Chain Lanyard

Metal Sealing Cap with Rubber Lanyard



PXM0024

- IP67 Metal Sealing Cap
- IP67 when fitted
- Rubber lanyard
- Offers shielding when mated with Metal Rear Panel Mount PXM0023
- Fits PXP0023 and PXM0023



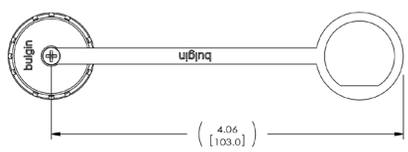
Part no.	Lanyard	Cap Material	Description
PXM0024	Rubber	Metal	Metal Sealing Cap with Rubber Lanyard

Miniature Plastic Sealing Cap with Rubber Lanyard



PXP0026

- IP67 Plastic Miniature Sealing Cap
- IP67 when fitted
- Rubber lanyard
- Fits PXP0025



Part no.	Lanyard	Cap Material	Description
PXP0026	Rubber	Plastic	Miniature Plastic Sealing Cap with Rubber Lanyard

Mechanical	
Sealing	IP67
Operating temperature PXP0020, PXP0023, PXM0023, PXP0025/MB/XXXX/MB PXP0023/A/0M25/FL, PXP0023/B/0M25/FL, PXP0025/C/1M00/A, PXP0026 PXP0024	-10°C to +80°C -20°C to +80°C -40°C to +80°C
Flammability	UL94 V-0, (UL94HB for PN: PXP0026)

Mating Threads	
PXP0023, PXM0023	13/16-28UN 2A
PXP0024	13/16-28UN 2B
PXP0025	5/8-27UN-2A
PXP0026	5/8-27UN-2B

Materials	
Cable outer jacket	PVC
Overmould material	PVC
Contact material	Copper alloy
Contact plating	.76 µm (micrometer) gold

Electrical	
PXP0020, PXP0023, PXM0023	24AWG conductors and 28AWG Twisted pairs
PXP0023/A/0M25/FL, PXP0023/B/0M25/FL	24AWG
PXP0025/C/1M00/A	26AWG conductors and 32AWG twisted pairs
PXP0025/MB/XMXX/MB	28AWG conductors and twisted pairs

Wiring

PXP0023/B/0M25/FL

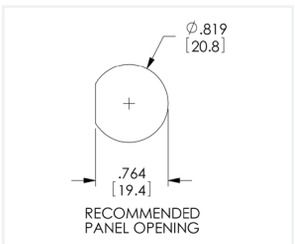
P1	TYPE	WIRE COLOUR	P2
1	—	Red (PT 1954C)	1
2	—	White (RAL 9003)	2
3	—	Green (PT 328C)	3
4	—	Black (PT Black 6C)	4
Shell	—	Gray (PT 421C)	Shell

PXP0023/A/0M25/FL

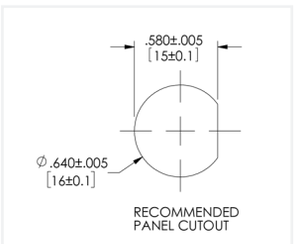
P1	TYPE	WIRE COLOUR	P2
1	—	Black (PT Black 6C)	1
2	—	Green (PT 328C)	2
3	—	White (RAL 9003)	3
4	—	Red (PT 1954C)	4
Shell	—	Gray (PT 421C)	Shell

Panel Cut inches [mm]

PXP0023, PXM0023



PXP0025



30 Series Waterproof HDMI



Cables:

- Attached dust cap on each end of the cable
- Threaded coupling rated to IP67 when mated
- Gold plated contact ensures reliable and repeated connections
- PVC molded durable backshells
- Available in 1m, 2m, 3m, 4m lengths
- HDMI 1.4 performance

Panel Mount Connectors:

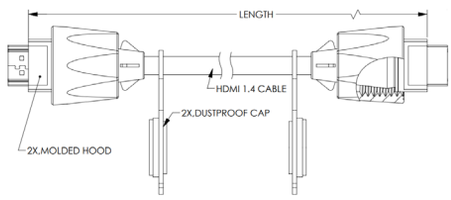
- Attached Sealing Cap
- Threaded coupling rated to IP67
- Gold plated contact ensures reliable and repeated connections

IP67 Waterproof HDMI Cable



PXP0036/XM00

- IP67 Waterproof HDMI Cable
- Attached dust cap on each end of the cable
- Threaded coupling rated to IP67
- Gold plated contact ensures reliable and repeated connections
- PVC molded durable backshells
- Available in 1m, 2m, 3m, 4m lengths



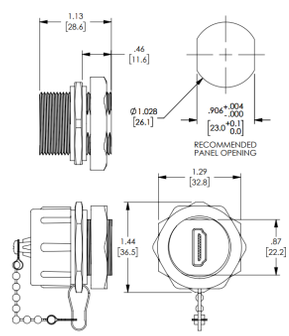
Part no.	Length	Description
PXP0036/1M00	1m	IP67 Waterproof HDMI Cable Assembly 1m
PXP0036/2M00	2m	IP67 Waterproof HDMI Cable Assembly 2m
PXP0036/3M00	3m	IP67 Waterproof HDMI Cable Assembly 3m
PXP0036/4M00	4m	IP67 Waterproof HDMI Cable Assembly 4m

IP67 Waterproof HDMI Panel Mount Coupler with Sealing Cap

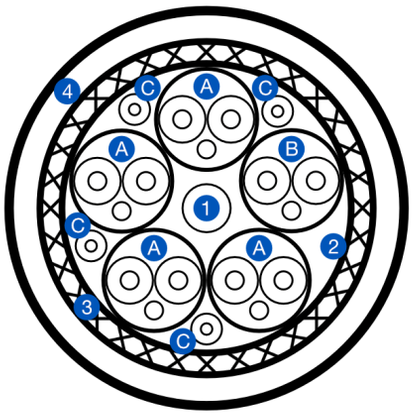


PXP0037

- IP67 Waterproof HDMI Panel Mount Coupler with Sealing Cap
- Attached Sealing Cap
- Threaded couplings rated to IP67 when mated
- Gold plated contact ensures reliable and repeated connections



Part no.	Description
PXP0037	IP67 Waterproof HDMI Front Panel Mount Coupler



A: Component A (see table)
B: Component B (see table)
C: Component C (see table)

1. Filler, cotton thread
2. Film, alu-side face out + mylar
3. Cu braid, 85% coverage
4. Black PVC outer jacket

Component A	TMDS Data & CLK Pairs
Conductor	1/0.26(30AWG) Solid OFC
Insulation	Polyolefin OD: 0.74±0.05
Drain Wire	1/0.26(30AWG) Solid OFC
Shielding	Al Side Face in+ Mylar&Mylar

Component B	HDMI eARC Pair (Enhanced Audio Return Channel)
Conductor	1/0.26(30AWG) Solid OFC
Insulation	Polyolefin OD: 0.74±0.05
Drain Wire	1/0.26(30AWG) Solid OFC
Shielding	Al Side Face in+ Mylar&Mylar

Component C	Signal Wires
Conductor	1/0.26(30AWG) Solid OFC
Insulationl	Foam-PE OD:0.60±0.05

Cable Assembly

Material	
Shroud	PBT
Hood	PVC, UL94V-0
O-ring Seal	EPDM
Jacket	PVC
Dustproof	PVC

Electrical Testing	
Insulation Resistance	20MΩ Min
Conductor Resistance	3Ω Max
Voltage	300V DC/0.1s

Environmental	
Ingress Protection Rating	IP67
Operating Temperature Range	-24°C to 85°C
Humidity	10%~90% RH

Miscellaneous	
Cable Outer Diameter	(1M+2M) 6.0mm, (3M+4M) 7.3mm

Panel Mount Connector Assembly

Material	
Main Body + Dust Cap	PBT+GF
Hood	Molded 25P PVC
Chain	Bronze Nickel Plated
Contact	Copper Alloy
Shell	Copper Alloy

Physical Characteristics	
Mating	44N Max
Withdrawal	10N min
Durability	1000 insertion cycles
Operating Temperature Range	-10°C to 60°C
Storage Temperature Range	-40°C to 68°C
Humidity	10% to 90% RH (Non – Condensing)

Electrical	
Contact Current Rating	0.5A
Dielectric Withstanding voltage	300V AC
Insulation Resistance	Mate 100MΩ min 500VDC Unmate 10MΩ min @ 150VDC
Contact Resistance	30mΩ Max

400 Series - Mini USB Buccaneer

IP68 Sealed



- IP68, Tested in accordance with EN60529:1992+A2:2013
- IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- USB version 2.0 performance
- Plug and play capability
- Shielded system
- Overmoulded cables
- Screw coupling
- PCB versions
- Dust and waterproof to EN60529
- Data rates up to 480Mbps
- Hot pluggable, standard 4 Contacts interface
- High noise immunity
- Tamperproof construction
- Secure, proven locking system
- Direct mounting or via adaptor leads
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

400 Series - Mini USB Buccaneer

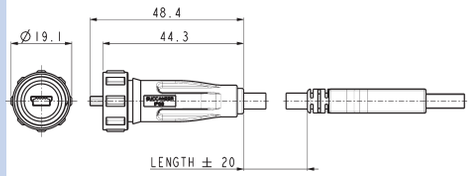
Sealed Mini USB Cables - Single Ended

Sealed Mini ‘B’ to Standard ‘A’



PX0441

- IP68 Sealed Mini ‘B’ Plug to Standard ‘A’ Plug
- Fully overmoulded construction
- Available in 2, 3 & 4.5m lengths
- Mates with PX0443, PX0446, PX0447, PX0456, PX0457 & PX0458

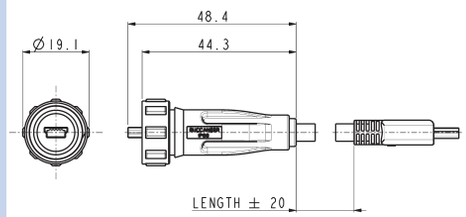


Sealed Mini ‘B’ to Mini ‘A’



PX0442

- IP68 Sealed Mini ‘B’ Plug to Mini ‘A’ Plug
- Fully overmoulded construction
- Available in 2, 3 & 4.5m lengths
- Mates with PX0443, PX0446, PX0447, PX0456, PX0457 & PX0458

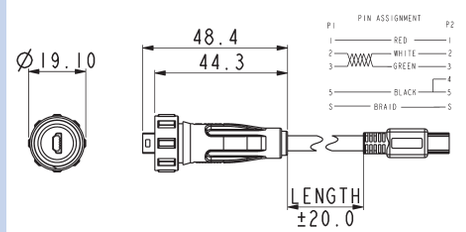


Sealed Mini ‘A’ to Mini ‘B’



PX0444

- IP68 Sealed Mini ‘A’ Plug to Mini ‘B’ Plug
- Fully overmoulded construction
- Available in 2, 3 & 4.5m lengths
- Mates with PX0456, PX0457 & PX0458



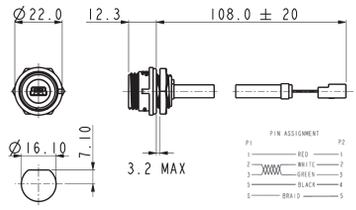
Part No.	Length	Description
PX0441/2M00	2.0m	IP68 Sealed Mini ‘B’ to Standard ‘A’ Type USB
PX0441/3M00	3.0m	IP68 Sealed Mini ‘B’ to Standard ‘A’ Type USB
PX0441/4M50	4.5m	IP68 Sealed Mini ‘B’ to Standard ‘A’ Type USB
PX0442/2M00	2.0m	IP68 Sealed Mini ‘B’ to Mini ‘A’ Type USB
PX0442/3M00	3.0m	IP68 Sealed Mini ‘B’ to Mini ‘A’ Type USB
PX0442/4M50	4.5m	IP68 Sealed Mini ‘B’ to Mini ‘A’ Type USB
PX0444/2M00	2.0m	IP68 Sealed Mini ‘A’ to Mini ‘B’ Type USB
PX0444/3M00	3.0m	IP68 Sealed Mini ‘A’ to Mini ‘B’ Type USB
PX0444/4M50	4.5m	IP68 Sealed Mini ‘A’ to Mini ‘B’ Type USB

Front Panel Mounting Connector



PX0443

- Mini ‘B’ Type Receptacle
- Leaded with 5 way crimp, for use with PCB header
- Mates with PX0441 & PX0442 type cables



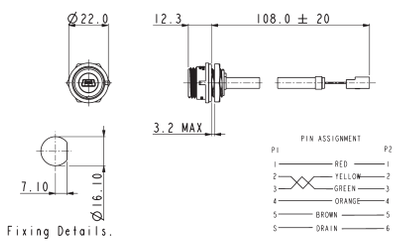
Part no.	Description
PX0443	IP68 B type Mini USB, front panel mounted. 5 way crimp connector at rear.
PX0459	As PX0443 with exposed braid for use with PX0464 screening can

Front Panel Mounting Connector



PX0456

- Mini ‘AB’ Type Receptacle
- Leaded with 6 way crimp, for use with PCB header
- Mates with PX0441, PX0442 & PX0444 type cables



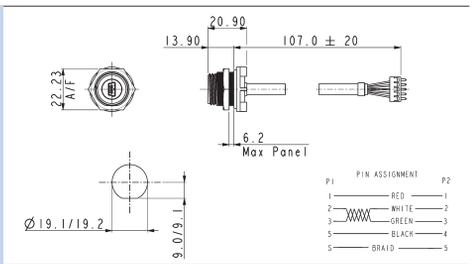
Part no.	Description
PX0456	IP68 AB type Mini USB, front panel mounted. 6 way crimp connector at rear.

Rear Panel Mounting Connector



PX0446

- Mini ‘B’ Type Receptacle
- Leaded with 5 way header
- Mates with PX0441 & PX0442 type cables

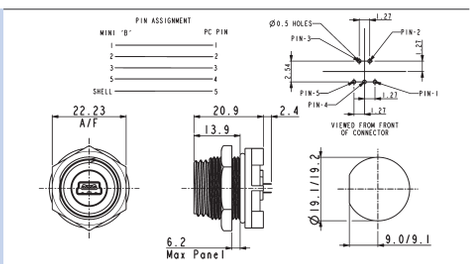


Rear Panel Mounting Connector



PX0447

- Mini ‘B’ Type Receptacle
- With Plugs for direct PCB mounting
- Mates with PX0441 & PX0442 type cables



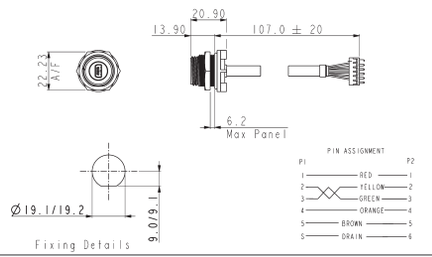
Part no.	Description
PX0446	IP68 B type Mini USB, rear panel mounted. 5 way header connector at rear.
PX0447	IP68 B type Mini USB, rear panel mounted. PCB terminals at rear.

Rear Panel Mounting Connector



PX0457

- Mini ‘AB’ Type Receptacle
- Leaded with 6 way header
- Mates with PX0441, PX0442 & PX0444 type cables

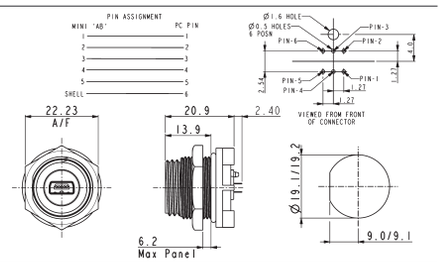


Rear Panel Mounting Connector



PX0458

- Mini ‘AB’ Type Receptacle
- With Plugs for direct PCB mounting
- Mates with PX0441, PX0442 & PX0444 type cables



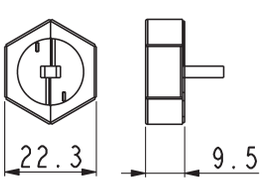
Part no.	Description
PX0457	IP68 AB type Mini USB, rear panel mounted. 6 way header connector at rear.
PX0458	IP68 AB type Mini USB, rear panel mounted. PCB terminals at rear.

Screening Can



PX0464

- Maintains cable screening directly to panel
- Shielding can clips around the panel fixing nut
- For use on PX0459



Accessories



- Sealing caps to maintain IP
- rating when connectors are not in use
- PCB headers for use with PX0443 & PX0456

Part no.	Description
PX0485	Sealing cap for use with PX0441, PX0442 & PX0444
PX0480	Sealing cap for use with PX0443 & PX0456
PX0484	Sealing cap for use with PX0446, PX0447, PX0457 & PX0458
14191	5 way straight header
14192	5 way right angle header
14563	6 way straight header
14564	6 way right angle header

Cables & connectors

Mechanical

Sealing	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
Operating temperature	-35C to +70C
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Electrical

No. of Contacts	4 and 5
Current rating	1A
Voltage rating	30V AC, 42V DC
Contact resistance	50m Ω max.
Performance	USB version 2.0

Materials - Overmoulded

Overmould material	PVC (black)
Flammability rating	UL94V-0

Materials - Re-wireable and Panel Connectors

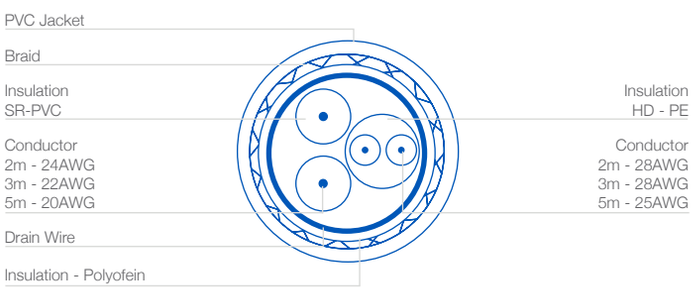
Shell material	Steel
Shell plating	Nickel
Contact material	Copper Alloy
Contact plating	50 micro inch Gold
Connector body & locking ring	Polyester
Panel connector	Nylon 6
Flammability rating	UL94V-0
‘O’ rings	Nitrile
Mating cycles	5,000
RoHS	Compliant

Materials - cable

Cable Jacket	PVC (black)
Screen	Tinned copper braid
Flammability	UL94V-0
RoHS	Compliant

Length:	Dia	Conductors Signal	Conductors Power
2m	4.8mm	2 x 28AWG	2 x 24AWG
3m	5.0mm	2 x 28AWG	2 x 22AWG
5m	5.2mm	2 x 25AWG	2 x 20AWG

Cable construction - PX0441, PX0442, PX0444



400 Series - SMB Buccaneer



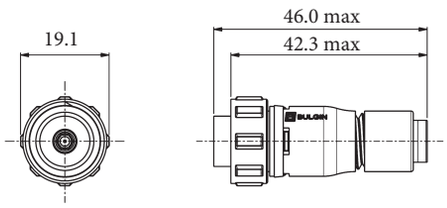
- IP68, Tested in accordance with EN60529:1992+A2:2013
- IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- 50Ω Impedance SMB connector
- Frequency range 0-4GHz
- Contact resistance
  - centre - 6mΩ max.
  - outer - 2.5mΩ max.
- Gold plated contacts
- Diameter over coupling ring 19mm
- Body moulding, Nylon UL94-V0 rated
- Two versions of Flex Connector
  - re-wireable
  - pre-wired - lengths 1m, 3m & 5m
- Panel connector
  - pre-wired - lengths 0.5m,1m & 1.5m
- Cable accommodation (flex re-wireable), RG-174
- Cable type (pre-wired connectors), RG-174

Re- Wireable Flex Connector



PX0415/1

- Mates with Panel connector (PX0414)
- Re-wireable connector
- For RG-174 cable
- Supplied with SMB plug



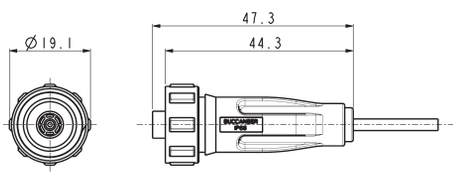
Part no.	Description
PX0415/1	Re-wireable connector with SMB Plug - for RG-174 cable

Pre- Wireable Flex Connector



PX0416/xMxx

- Mates with Panel connector (PX0414)
- Pre-wired
- Overmoulded construction
- Supplied with SMB plug terminated with RG-174 cable
- 1m, 3m & 5m cable lengths



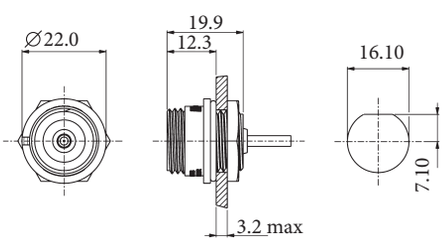
Part no.	Description
PX0416/1M00	Overmoulded connector with SMB plug - cable length 1m
PX0416/3M00	Overmoulded connector with SMB plug - cable length 3m
PX0416/5M00	Overmoulded connector with SMB plug - cable length 5m

Front Panel Mount Connector



PX0414/xMxx

- Mates with Flex connectors (PX0415, PX0416)
- Single hole fixing
- Supplied with SMB jack
- terminated with RG-174 cable
- U.FL cable version also available



Part no.	Description
PX0414/0M50	Panel connector with SMB jack - cable length 0.5m
PX0414/1M00	Panel connector with SMB jack - cable length 1m
PX0414/1M50	Panel connector with SMB jack - cable length 1.5m

Sealing Caps

- Sealing caps maintain IP rating when connectors are not in use



PX0480 PX0481 PX0485

Part no.	Description
PX0480	Sealing cap for PX0414 chassis connector
PX0481	Sealing cap for PX0415 re-wireable flex connectors
PX0485	Sealing cap for PX0416 overmoulded flex connector
14319	Hand crimp tool for SMB

400 Series - SMB Buccaneer

Specifications

Electrical

Impedance:	50Ω
Frequency Range:	0-4GHz
Contact Resistance:	
Centre:	6mΩ (max.)
Outer:	2.5mΩ (max.)
Insulator Resistance:	1000MΩ (max.)

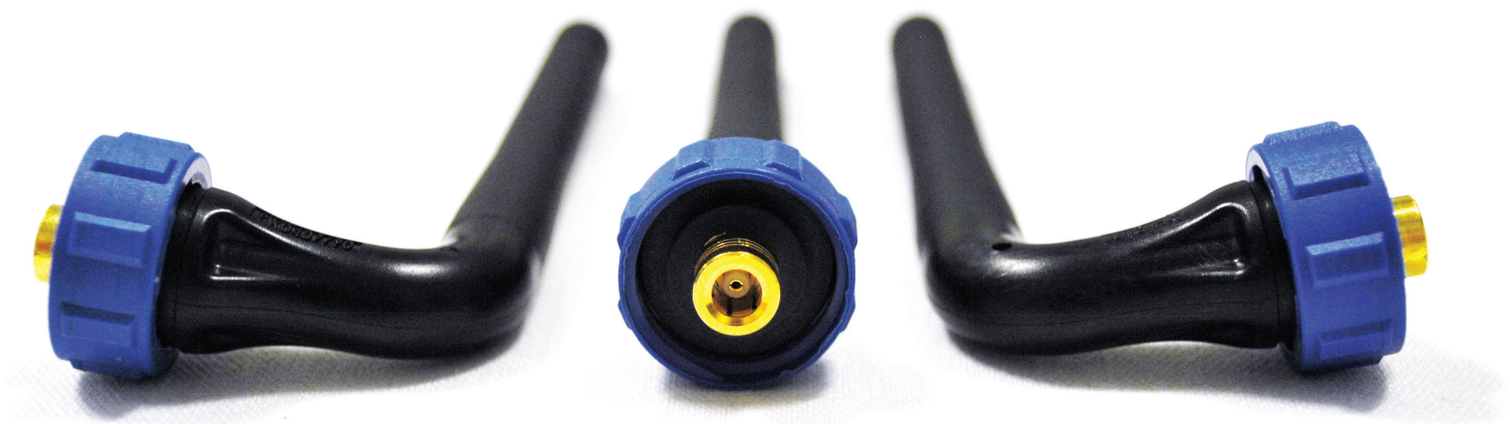
Mechanical:

Sealing:	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)
	IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Cable Acceptance:	RG-174
Insertion/Withdrawal Force:	
Insertion Force:	36N
Withdrawal Force:	36N
Cable Retention Force:	18N
Mating Cycles:	500
Operating Temperature:	–20°C to +80°C

Material:

PX0415/1 and PX0414	
Body Mouldings:	Polyamide
Flammability Rating:	UL94V-0
UV Resistance:	To EN 50021:1999
PX0416	
Body Mouldings:	PVC (black)
Flammability Rating:	UL94V-0
O Rings:	Nitrile
Panel Sealing O Ring:	Nitrile
SMB Connector	
Body:	Brass to QQ-B-626, Gold Plated
Centre Contact:	
Plug:	Brass to QQ-B-626, Gold Plated
Jack:	Beryllium Copper to QQ-B-530, Gold Plated
Insulator:	Teflon
Crimp Ferrules:	Annealed Copper
RoHS	Compliant

400 Series - Wireless Buccaneer



SMB Antenna

- IP68, Tested in accordance with EN60529:1992+A2:2013
- IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- SMB 50 ohm interface
- For use with SMB Buccaneer
- Three frequency bands:
  440 to 470MHz
  850-900/1800/1900MHz
  2.4 to 2.5GHz
- Maintains sealing integrity of equipment

Bluetooth Cable Replacement

- IP68, Tested in accordance with EN60529:1992+A2:2013
- RS485/RS232 serial interfaces
- Serial data to Bluetooth
- Wireless transparent data connection
- Up to 100m range (class 1)
- Maintains sealing integrity of equipment

SMB Antenna

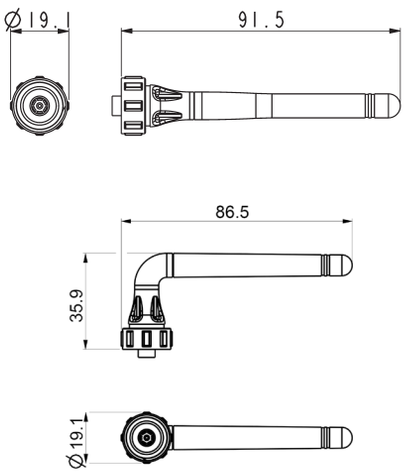


PX0407



PX0407/90

- Dust & waterproof to IP68 EN60529 when mated
- Secure screw thread locking
- Built-in sealed antenna
- Mates with SMB Buccaneer PX0414
- Frequency bands:
  2.4 to 2.5GHz
  440 to 470MHz
  850-900/1800/1900MHz



Part no.	Description
PX0407	IP68 rated, Buccaneer Antenna, 2.4 to 2.5GHz frequency band
PX0408	IP68 rated, Buccaneer Antenna, 440 to 470MHz frequency band
PX0409	IP68 rated, Buccaneer Antenna, 850-900/1800/1900MHz frequency band
PX0407/90	IP68 rated, Buccaneer Antenna, 2.4 to 2.5GHz frequency band
PX0408/90	IP68 rated, Buccaneer Antenna, 440 to 470MHz frequency band
PX0409/90	IP68 rated, Buccaneer Antenna, 850-900/1800/1900MHz frequency band

Specification

Electrical

Frequency	
PX0407	2.4 to 2.5GHz
PX0408	440 to 470MHz
PX0409	850-900/1800/1900MHz
Configuration	
PX0407	¼ Wavelength
PX0408	½ Wavelength
PX0409	½ Wavelength
Radiation	Omnidirectional
Polarization	Vertical
Impedance	50Ω nominal
VSWR	<2

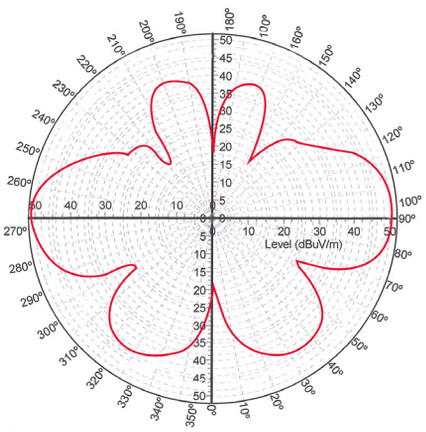
Mechanical

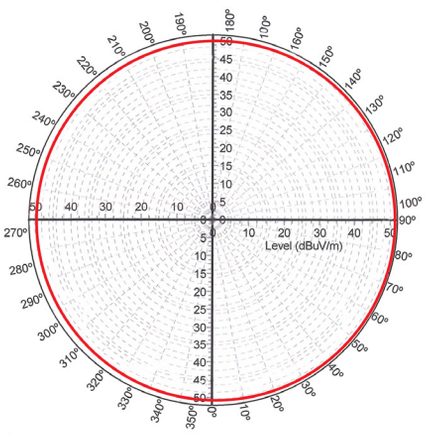
Sealing	IP68, EN60529:1992+A2:2013, when mated (10m depth for 2 weeks) IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
Operating Temperature:	–20°C to +65°C
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Material

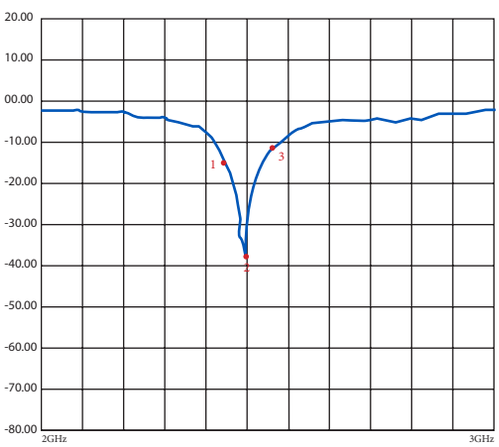
Body Mouldings	PVC
Flammability Rating	UL94V-0
UV Resistance	EN50021:1999
RoHS	Compliant

PX0407 Polar plots - 2.4 to 2.5GHz Frequency Band

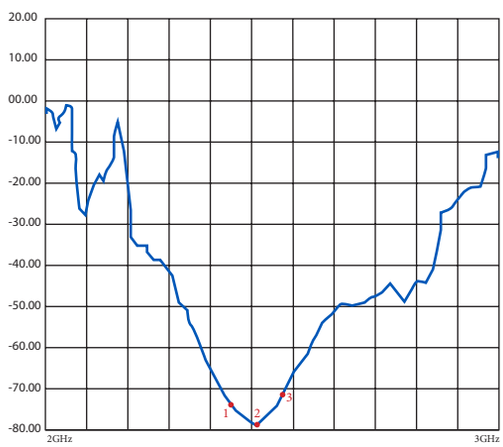




PX0407 Radiation Pattern plots

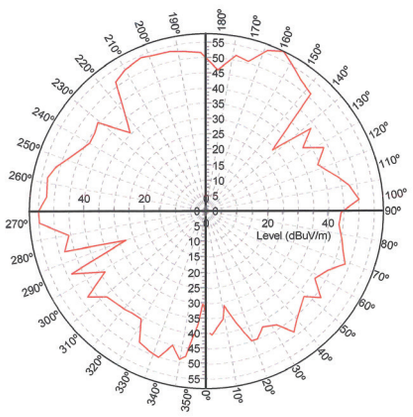


1 -12624 dB 2.v0 GHz
2 -34951 dB 2.45000 GHz
3 -12.777 dB 2500.000 000 MHz

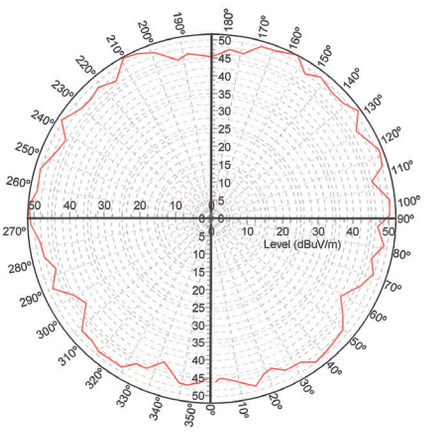


1 1.5659 dB 2.40000 GHz
2 1.6514 dB 2.45000 GHz
3 1.6032 dB 2500.000 000 MHz

PX0408 Polar plots - 440 to 470MHz Frequency Band

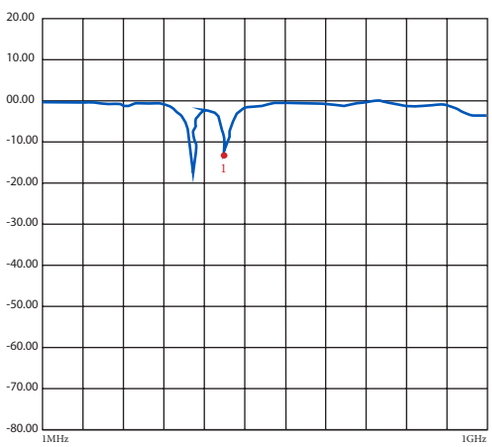


Pattern Field E

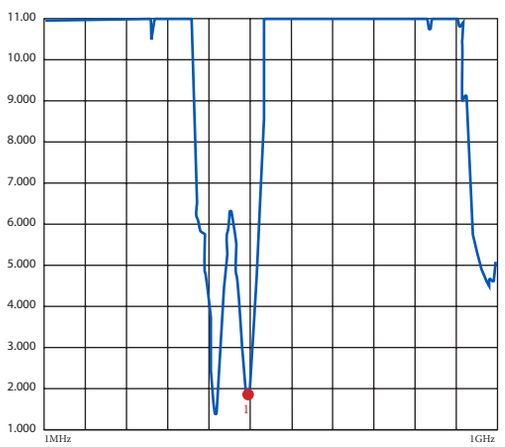


Pattern Field H

PX0408 Radiation Pattern plots

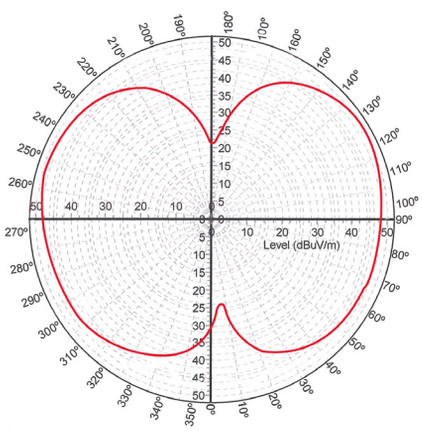


1 450.00000 MHz -13.300 dB

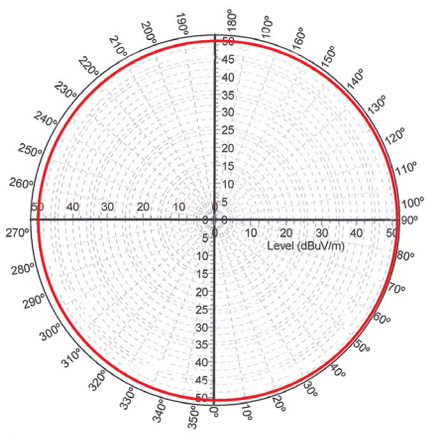


1 450.00000 MHz -13.300 dB

PX0409 / 850-900MHz Polar plots

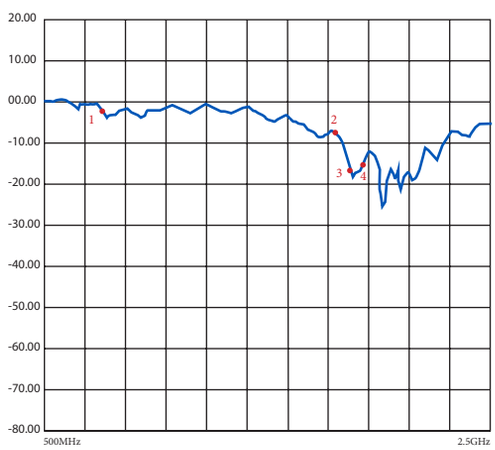


Pattern Field E

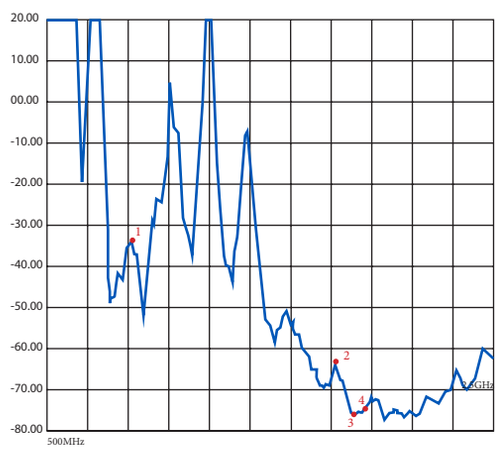


Pattern Field H

PX0409 / 850-900MHz Radiation Pattern plots

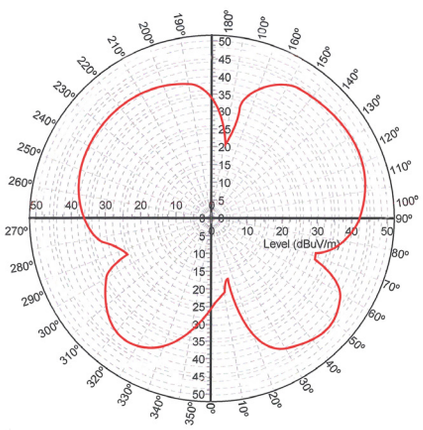


1 900.00000 MHz -3.4307 dB
2 1.8000000 GHz -9.0130 dB
3 1.8800000 GHz -19.516 dB
4 1.9000000 GHz -20.297 dB

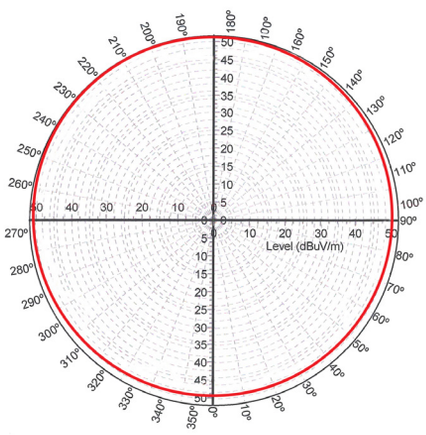


1 900.00000 MHz 5.1694 dB
2 1.8000000 GHz 2.2481 dB
3 1.8800000 GHz 1.2377 dB
4 1.9000000 GHz 1.2052 dB

PX0409 / 1800MHz Polar plots

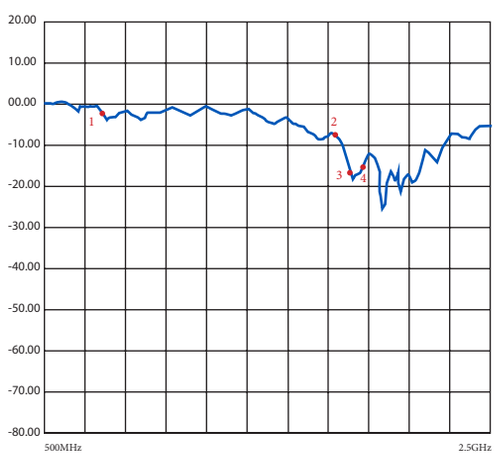


Pattern Field E

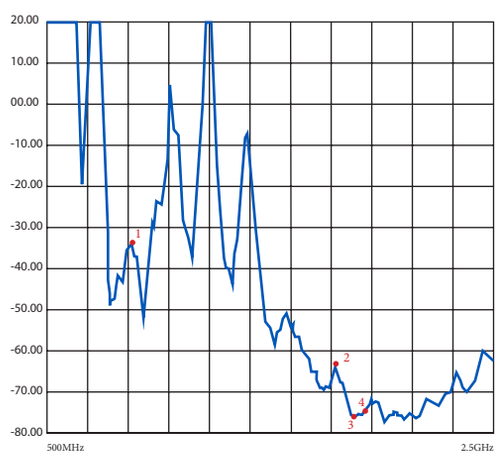


Pattern Field H

PX0409 / 1800MHz Radiation Pattern plots

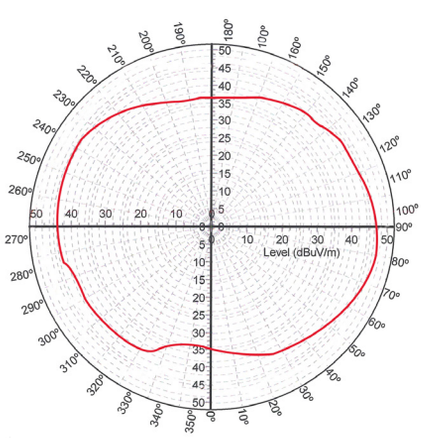


1 900.00000 MHz -3.4307 dB
2 1.8000000 GHz -9.0130 dB
3 1.8800000 GHz -19.516 dB
4 1.9000000 GHz -20.297 dB

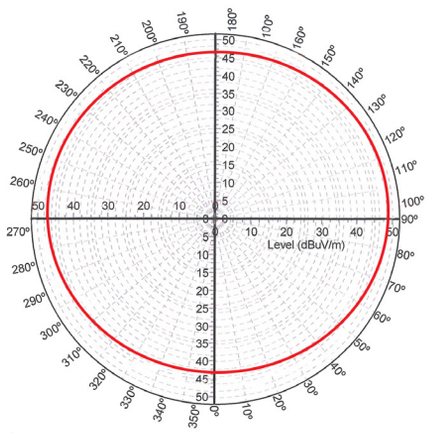


1 900.00000 MHz 5.1694 dB
2 1.8000000 GHz 2.2481 dB
3 1.8800000 GHz 1.2377 dB
4 1.9000000 GHz 1.2052 dB

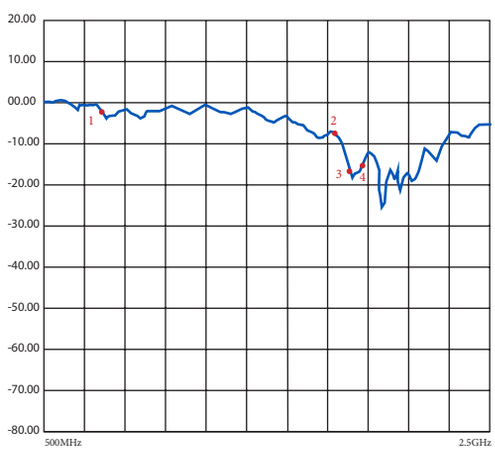
PX0409 / 1900MHz Polar plots



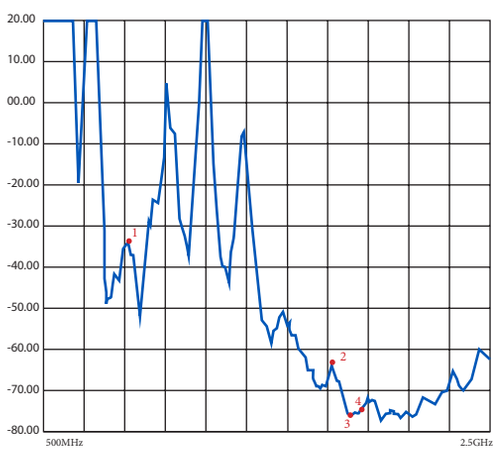
Pattern Field E



Pattern Field H



1 900.00000 MHz -3.4307 dB
2 1.8000000 GHz -9.0130 dB
3 1.8800000 GHz -19.516 dB
4 1.9000000 GHz -20.297 dB



1 900.00000 MHz 5.1694 dB
2 1.8000000 GHz 2.2481 dB
3 1.8800000 GHz 1.2377 dB
4 1.9000000 GHz 1.2052 dB

4000 Series - Micro USB Buccaneer



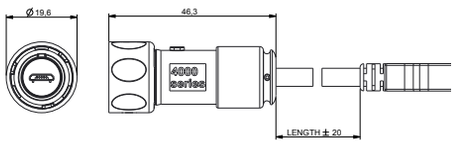
- IP66, IP68 and IP69K rated
- USB version 2.0 performance
- Plug and play capability
- Shielded system
- Overmoulded cables
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- Data rates up to 480Mbps
- Secure, proven locking system
- Tamperproof Construction
- Colour coded O-rings & washers for easy identificaiton purposes

Sealed Micro ‘B’ to Standard ‘A’



PXP4040/B

- Sealed Micro ‘B’ plug to Standard ‘A’ plug
- Available in 2, 3 & 5m lengths
- Plug variant mates with PX-P4043/B



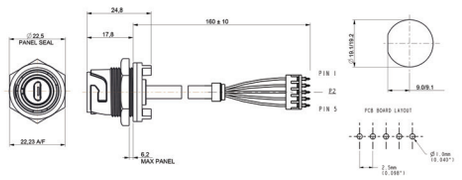
Part No.	Length	Description
PXP4040/B/2M00	2.0m	IP-sealed micro ‘B’ to Standard ‘A’ type USB
PXP4040/B/3M00	3.0m	IP-sealed micro ‘B’ to Standard ‘A’ type USB
PXP4040/B/5M00	5.0m	IP-sealed micro ‘B’ to Standard ‘A’ type USB

Rear Panel Mounting Connector



PXP4043/B

- Micro ‘B’ type
- Leaded with 5 way header
- Socket variant mates with PXP4040/B type cables



Part no.	Description
PXP4043/B	IP-sealed B type Micro USB, rear panel mounted. 5 way header connector at rear.

Accessories



- Sealing caps to maintain IP rating when connectors are not in use

Part no.	Description
PXP4081	Sealing cap for use with PXP4010 & PXP4040/B
PXP4082	Sealing cap for use with PXP4011
PXP4083	Sealing cap for use with PXP4013 & PXP4043

Gland Packs



Part no.	Description
PXP4088/0305	Pack of 4 pairs cable glands and collets to suit cables from 3.0 to 5.0mm diameter.
PXP4088/0507	Pack of 4 pairs cable glands and collets to suit cables from 5.0 to 7.0mm diameter.

O-ring & washer pack



Part no.	Description
PXP4089/YL	Yellow coloured O-ring and washer pack
PXP4089/BL	Blue coloured O-ring and washer pack
PXP4089/RD	Red coloured O-ring and washer pack
PXP4089/WH	White coloured O-ring and washer pack
PXP4089/GN	Green coloured O-ring and washer pack

Cables & connectors

Mechanical

Sealing	IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013
Panel Mount Nut	1.0 - 1.1NM (91lb.in)
Operating temperature	-40°C to +70°C
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Electrical

No. of Contacts	4 and 5
Current rating	1A
Voltage rating	30V AC, 42V DC
Contact resistance	50m Ω max.
Performance	USB version 2.0

Materials - Re-wireable and Panel Connectors

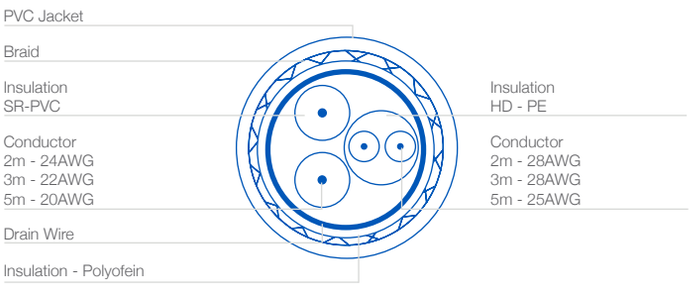
Shell material	Steel
Shell plating	Nickel
Contact material	Copper Alloy
Contact plating	50 micro inch Gold
Connector body & locking ring	PC/PBT
Panel connector	PC/PBT
Flammability rating	UL94V-0
'O' rings	Silicone
Mating cycles	1,000
RoHS	Compliant

Materials - cable

Cable Jacket	PVC (black)
Screen	Tinned copper braid
Flammability	UL94V-0
RoHS	Compliant

Length:	Dia	Conductors Signal	Conductors Power
2m	4.8mm	2 x 28AWG	2 x 24AWG
3m	5.0mm	2 x 28AWG	2 x 22AWG
5m	5.2mm	2 x 25AWG	2 x 20AWG

Cable construction - PXP4040/B & PXP4043



4000 Series - C-Type USB Buccaneer

Sealed C-Type USB Cables



- IP66, IP68 and IP69K rated
- USB3.2 supported
- Plug and play capability
- Shielded system
- Secure, proven locking system
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- Data rates up to 20 Gbps
- Tamperproof Construction
- Colour coded O-rings & washers for easy identificaiton purposes

4000 Series - C-Type USB Buccaneer

Sealed C-Type USB Cables

Sealed 'C' type to Standard 'C'



PXP4041/C/C

- Sealed Plug USB 'C' to Standard Plug USB 'C'
- Available in 1, 2, 3 & 5m lengths
- Plug variant mates with PXP4043/C
- USB 3.2 Gen 2x2 Supported



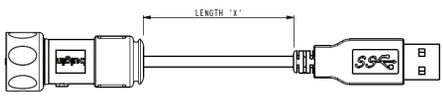
Part No.	Length	Description
PXP4041/C/C/1M00	1.0m	IP-sealed 'C' type to Standard 'C' type USB
PXP4041/C/C/2M00	2.0m	IP-sealed 'C' type to Standard 'C' type USB
PXP4041/C/C/3M00	3.0m	IP-sealed 'C' type to Standard 'C' type USB
PXP4041/C/C/5M00	5.0m	IP-sealed 'C' type to Standard 'C' type USB

Sealed 'C' type to Standard 'A'



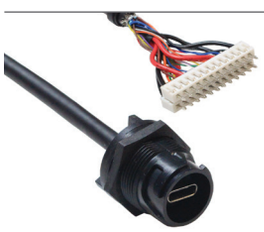
PXP4040/C/A

- Sealed Plug USB 'C' to Standard Plug USB 'A'
- Available in 1, 2, 3 & 5m lengths
- Plug variant mates with PXP4043/C
- USB 3.2 Gen 1 Supported



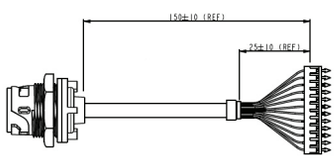
Part No.	Length	Description
PXP4040/C/A/1M00	1.0m	IP-sealed 'C' type to Standard 'A' type USB
PXP4040/C/A/2M00	2.0m	IP-sealed 'C' type to Standard 'A' type USB
PXP4040/C/A/3M00	3.0m	IP-sealed 'C' type to Standard 'A' type USB
PXP4040/C/A/5M00	5.0m	IP-sealed 'C' type to Standard 'A' type USB

Rear Panel Mount



PXP4043/C

- Sealed Socket USB 'C' Connector
- Leaded with 2x 12 way header
- Socket variant mates with PXP4040/C/A and PXP4041/C/C type cables
- USB 3.2 Gen 2 Supported



Part no.	Description
PXP4043/C	IP-sealed 'C' type USB, rear panel mounted. 2x 12 way header connector at rear

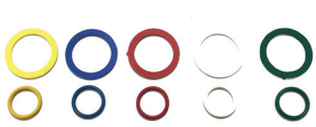
Sealing Caps



- Sealing caps to maintain IP rating when connectors are not in use

Part no.	Description
PXP4081	Sealing cap for use with PXP4040/C/A and PXP4041/C/C
PXP4083	Sealing cap for use with PXP4043/C

O-ring & washer pack



Part no.	Description
PXP4089/YL	Yellow coloured O-ring and washer pack
PXP4089/BL	Blue coloured O-ring and washer pack
PXP4089/RD	Red coloured O-ring and washer pack
PXP4089/WH	White coloured O-ring and washer pack
PXP4089/GN	Green coloured O-ring and washer pack

Cables & connectors

Mechanical

Sealing	IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013
Panel Mount Nut	1.0 - 1.1Nm (91lb.in)
Operating temperature	-40°C to +80°C
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Electrical

No. of Contacts	2x 12 way
Current rating	5A
Voltage rating	≤ 30V AC
Contact resistance	40m Ω max.
USB3.2 Gen 1:	5Gbps (2m maximum length)
USB3.2 Gen 2:	10Gbps (1m maximum length)
USB3.2 Gen 1x2:	10Gbps (2m maximum length)
USB3.2 Gen 2x2:	20Gbps (1m maximum length)

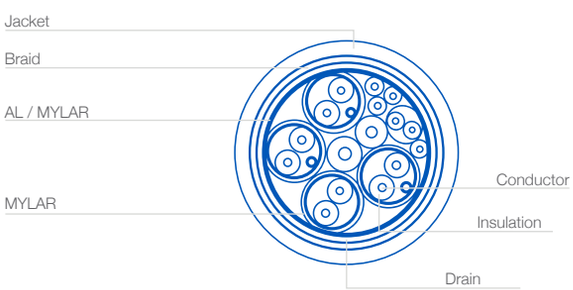
Materials - Re-wireable and Panel Connectors

Shell material	Stainless Steel
Shell plating	Nickel
Contact material	Copper Alloy
Contact plating	30 micro inch Gold
Connector body & locking ring	PC/PBT
Panel connector	PC/PBT
Flammability rating	UL94V-0
'O' rings	Silicone
Mating cycles	1,000
RoHS	Compliant

Materials - cable

Cable Jacket	PVC (black)
Screen	Tinned copper braid
Flammability	UL94V-0
RoHS	Compliant

Cable construction - PXP4040/C/A, PXP4041/C/C & PXP4043/C

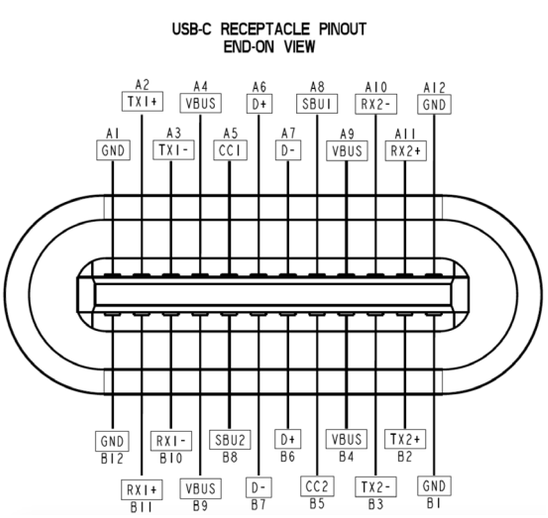


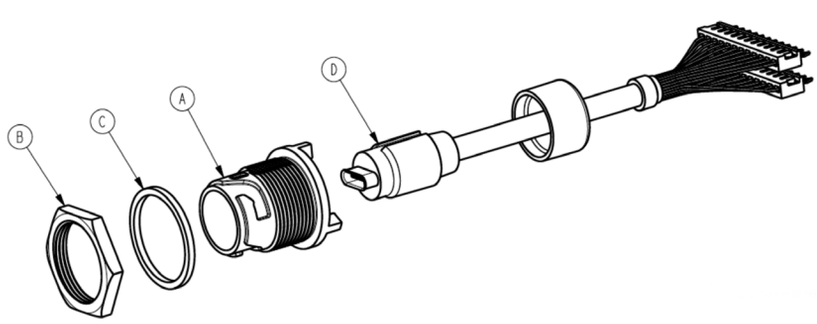
PXP4043/C

	Wire Colour	Label	Type	Cable Number	PCB Header Plugs P2	PCB Header Plugs P3
A1	-	Gnd	Braid	-	1	-
A2	Orange	TxI+	(Shielded Twisted	3	2	-
A3	Brown	TxI-	Shielded Twisted)	3	3	-
A4	Red	Vbus	Power	11	4	-
A5	Blue	CC1	Single	10	5	-
A6	White	D+	(Shielded Twisted	5	6	-
A7	Green	D-	Shielded Twisted)	5	7	-
A8	Orange	SbuA	Single	8	8	-
A9	Red	Vbus	Power	11	9	-
A10	Blue	RX2-	(Shielded Twisted	2	10	-
A11	Black	RX2+	Shielded Twisted)	2	11	-
A12	-	Gnd	Braid	-	12	-
B1	-	Gnd	Braid	-	-	12
B2	White	Tx2+	(Shielded Twisted	1	-	11
B3	Red	Tx2-	Shielded Twisted)	1	-	10
B4	Red	Vbus	Power	11	-	9
B5	Yellow	CC2	Single	9	-	8
B6	Purple	D+	(Twisted Pair	6	-	7
B7	Grey	D-	Twisted Pair)	6	-	6
B8	Brown	Sbu2	Single	7	-	5
B9	Red	Vbus	Power	11	-	4
B10	Yellow	RXI-	(Shielded Twisted	4	-	3
B11	Green	RXI+	Shielded Twisted)	4	-	2
B12	-	Gnd	Braid	-	-	1

Receptacle Plug Colour Key:

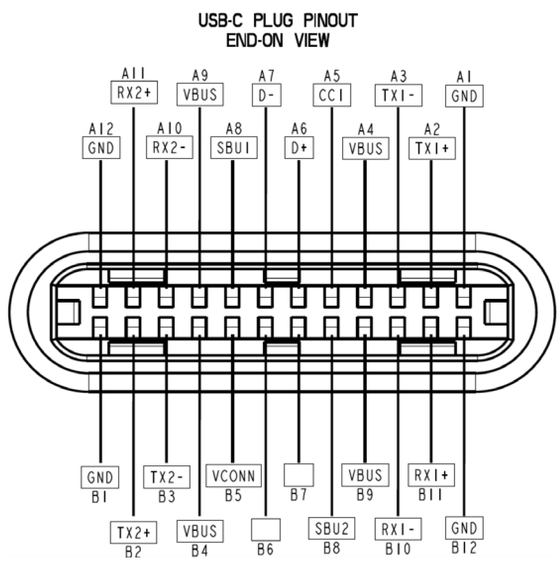
A1, A12, B12, B1: Cable Ground
A2, A3, B3, B2: High Speed Path (TX for USB or for DP Alt mode)
A4, A9, B9, B4: Cable Bus Power
A6, A7, B7, B6: USB 2.0 Interface
A8, B8: For Sideband Use (not used for USB)
A5, B5: Plug Configuration Detection (- One becomes Vconn, for cable or adaptor power. - CC is used for USB-PD communication)
A10, A11, B11, B10: High Speed Data Path (RX for USB, or TX for DP Alt Mode)





PXP4040/C/A

	Wire Colour	Label	Type	Cable Number	USB-3 Plug P2
A1, B1, A12, B12	-	Gnd	Braid	-	4, 7
A4, B4, A9, B9	Red	Vbus	-	10, 11	1
A5	-	CC	-	-	-
B5	-	Vconn	-	-	-
A6	Green	Dp 1	(Twisted Pair	5	3
A7	White	D -	Twisted Pair)	5	2
A2	Blue (Brown Jacket)	SSTXp 1	(Twisted Pair	1	6
A3	White (Brown Jacket)	SSTXn 1	Twisted Pair)	1	5
B11	Blue (Red Jacket)	SSRXp 1	(Twisted Pair	2	9
B10	White (Red Jacket)	SSRXn 1	Twisted Pair)	2	8
Shell	-	-	Braid	Screen	Shield



Wiring Notes:

1. Cable used has shielded twisted pairs with drain wires used for all SDP's.
2. Pin A5 (CC) of the USB Type-C Plug shall be connected to Vbus through a 56 K Ω ±5% resistor.
3. Contaacts B6 and B7 are not connected in the USB Type-C Plug.
4. All Vbus pins are connected together within the USB Type-C Plug. A Bypass Capacitor is required between the ground pins in the USB Type-C Plug side of the cable. The Bypass Capacitor is 10nF ± 20%. The bypass capacitor shall is as close as possible to the power supply pad.
5. All ground return pins are connected together within the USB Type-C Plug.
6. Shield and Gnd grounds are connected within the USB Type-C and USB 3.1 standard-A plugs on both ends of the cable assembly.
7. All USB Type-C plug pins that are not listed in this table shall be open (not connected).

4000 Series - Single Pair Ethernet Buccaneer

Sealed SPE Cables



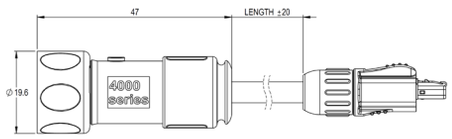
- IP66, IP68 ratings when mated
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- 10BASE-T1L performance in accordance with IEC 61156-12:2021
- Single and double-ended cable assemblies
- 22 AWG and 26 AWG cable options
- Front and rear panel mounts
- Bayonet coupling
- Secure, proven locking system
- Tamperproof construction

Patch Cord Flex Connector - Single-Ended



PXPSPE4030

- Mates with both Bulgin SPE panel mount connectors
- Fitted with IEC 63171-6:2021 SPE plugs
- Standard lengths: 1m, 2m, 3m, 5m
- 22 AWG and 26 AWG cable sizes



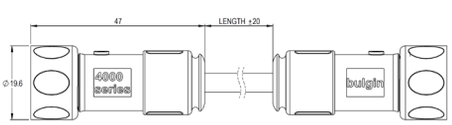
Part No.	Description
PXPSPE4030/1M/22	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 1 metre cable, 22 AWG
PXPSPE4030/2M/22	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 2 metre cable, 22 AWG
PXPSPE4030/3M/22	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 3 metre cable, 22 AWG
PXPSPE4030/5M/22	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 5 metre cable, 22 AWG
PXPSPE4030/1M/26	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 1 metre cable, 26 AWG
PXPSPE4030/2M/26	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 2 metre cable, 26 AWG
PXPSPE4030/3M/26	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 3 metre cable, 26 AWG
PXPSPE4030/5M/26	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 5 metre cable, 26 AWG

Patch Cord Flex Connector - Double-Ended



PXPSPE4031

- Mates with both Bulgin SPE panel mount connectors
- Fitted with IEC 63171-6:2021 SPE plugs
- Standard lengths: 1m, 2m, 3m, 5m
- 22 AWG and 26 AWG cable sizes



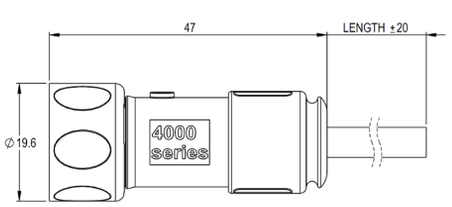
Part No.	Description
PXPSPE4031/1M/22	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 1 metre cable, 22 AWG
PXPSPE4031/2M/22	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 2 metre cable, 22 AWG
PXPSPE4031/3M/22	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 3 metre cable, 22 AWG
PXPSPE4031/5M/22	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 5 metre cable, 22 AWG
PXPSPE4031/1M/26	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 1 metre cable, 26 AWG
PXPSPE4031/2M/26	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 2 metre cable, 26 AWG
PXPSPE4031/3M/26	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 3 metre cable, 26 AWG
PXPSPE4031/5M/26	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 5 metre cable, 26 AWG

Patch Cord Flex Connector - `Wire-Ended



PXPSPE4034

- Mates with both Bulgin SPE panel mount connectors
- Fitted with IEC 63171-6:2021 SPE plugs
- Standard lengths: 1m, 2m, 3m, 5m
- 22 AWG and 26 AWG cable sizes



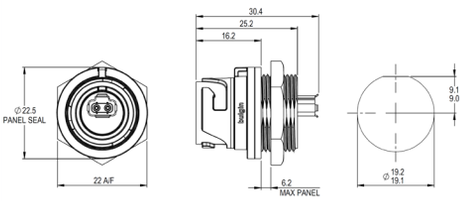
Part No.	Description
PXPSPE4034/1M/22	4000 Series SPE Buccaneer to blunt-cut wire, 1 metre cable, 22 AWG
PXPSPE4034/2M/22	4000 Series SPE Buccaneer to blunt-cut wire, 2 metre cable, 22 AWG
PXPSPE4034/3M/22	4000 Series SPE Buccaneer to blunt-cut wire, 3 metre cable, 22 AWG
PXPSPE4034/5M/22	4000 Series SPE Buccaneer to blunt-cut wire, 5 metre cable, 22 AWG
PXPSPE4034/1M/26	4000 Series SPE Buccaneer to blunt-cut wire, 1 metre cable, 26 AWG
PXPSPE4034/2M/26	4000 Series SPE Buccaneer to blunt-cut wire, 2 metre cable, 26 AWG
PXPSPE4034/3M/26	4000 Series SPE Buccaneer to blunt-cut wire, 3 metre cable, 26 AWG
PXPSPE4034/5M/26	4000 Series SPE Buccaneer to blunt-cut wire, 3 metre cable, 26 AWG

Front Panel Mounting Connector



PXPSPE4032

- Mates with all Bulgin PXPSPE403X patch cords
- Standard ‘T1’ SPE plugs can be used with either side
- Single hole fixing
- Complete with panel sealing gasket



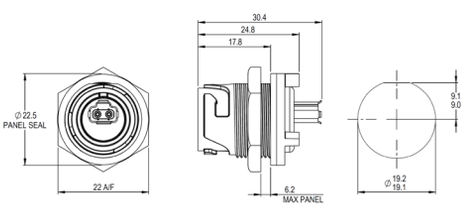
Part No.	Description	Fixing
PXPSPE4032	SPE coupler	Front panel mounted

Rear Panel Mounting Connector



PXPSPE4033

- Mates with all Bulgin PXPSPE403X patch cords
- Standard ‘T1’ SPE plugs can be used with either side
- Single hole fixing
- Complete with panel sealing gasket



Part No.	Description	Fixing
PXPSPE4033	SPE coupler	Rear panel mounted

Sealing Caps



PXP4083 PXP4081

- Sealing caps maintain IP-rating when connectors are not in use

Part No.	Description
PXP4081	Sealing cap for use with patch cords PXPSPE4030, PXPSPE4031, and PXPSPE4034
PXP4083	Sealing cap for use with panel mounts PXPSPE4032 and PXPSPE4033

Patch Cord Part Numbering

PXPSPE403X	/	XM	/	XX

Cable Assembly Style

PXPSPE4030 = Flex to 'T1'
PXPSPE4031 = Flex to Flex
PXPSPE4034 = Flex to bare end

Cable length

1M = 1 metre
2M = 2 metre
3M = 3 metre
5M = 5 metre

Cable gauge

22 = 22 AWG
26 = 26 AWG

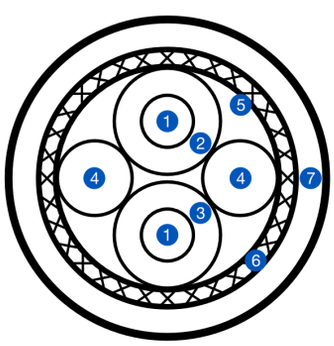
Examples:

PXPSPE4030/1M/22 = 4000 Series SPE Buccaneer to IP20 'T1' SPE Connector patch cord, 1 metre cable, 22 AWG

PXPSPE4031/2M/26 = 4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer patch cord, 2 metre cable, 26 AWG

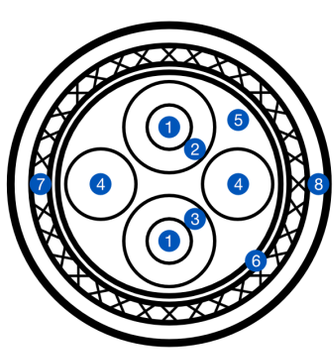
PXPSPE4034/5M/22 = 4000 Series SPE Buccaneer to bare end patch cord, 5 metre cable, 22 AWG

PXPSPE403X-XM-22 Cable Cross-Section



1. Tinned, stranded copper
2. Blue PE insulation (core 1)
3. White PE insulation (core 2)
4. Filler
5. Alu-coated polyester film
6. Wire braiding
7. Outer PVC jacket

PXPSPE403X-XM-26 Cable Cross-Section



1. Tinned, stranded copper
2. Blue PE insulation (core 1)
3. White PE insulation (core 2)
4. Filler
5. Inner TPE jacket
6. Alu-coated polyester film
7. Wire braiding
8. Outer PUR jacket

Cables & Connectors	
Mechanical	
Sealing	IP68, EN 60529:1992 + A2:2013 (10m depth for 2 weeks) IP66, EN 60529:1992 + A2:2013
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Operating temperature	-40°C to +80°C
Panel Mount Nut Torque	1.0 – 1.1 Nm (91 lb.in)
Electrical	
No. of Contacts	2 way + shielding
Current rating	4 A
Voltage rating	60 V DC
Contact resistance	≤ 20 mΩ
Materials - Patch Cords and Panel Connectors	
Shell material	Stainless Steel
Shell plating	Nickel
Contact material	Copper Alloy, Gold Plated
Connector body & locking ring	PC/PBT
Flammability rating	UL94V-0
'O' rings	Silicone
Mating cycles	1,000
RoHS	Compliant
Material - Cable	
Cable Jacket	Black PVC (22 AWG), Black PUR (26 AWG)
Screen	Tinned copper braid
Flammability	UL94V-0
RoHS	Compliant

600 Series - Ethernet Buccaneer

Our 600 Series - Ethernet Buccaneer Connectors provide a reliable ethernet connection in environments where regular Ethernet connectors would be prone to damage or malfunction.
They are designed to withstand the harshest of environments, such as outdoor, industrial, or military applications. These connectors are built with materials & features that protect against dust, water, vibrations & extreme temperatures. Moreover, our 600 Series offer 100% transversely sealed (IP68) connectors preventing dust, water or moisture penetration. The 600 series connectors come with EMI shielded & unshielded versions and are available in jam nut, flange mount, inline plug, and plug options.



Key Features:

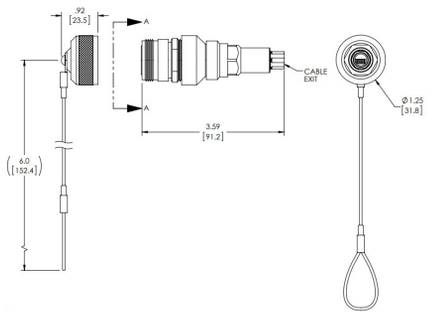
- Cat 5e & Cat 6a compliant
- Supports 10, 100 & 1,000 Mbps data transmissions
- POE, POE+ & POE++
- DATA, VOiP & IPTV in Harsh Environments
- Durability >500 cycles
- Operating temperature -40°C to +100°C
- Screw coupling
- IP68-rated
- EMI Shielded & Unshielded versions
- Transversely Sealed IP68 when mated & unmated
- Sealing Cap option is available

Transversely Sealed Inline Plug



PXM0608

- IP68 when mated & unmated
- Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug
- Standard RJ45 cable to be sourced or modular connector



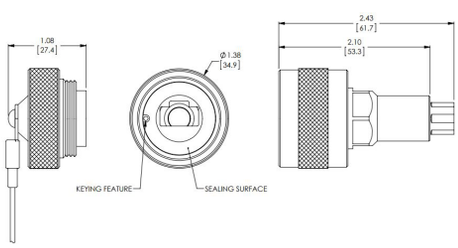
Part No.	Category	Plating	Colour	Cable Entry
PXM0608NSANBK4868	Standard RJ45 cable to be sourced	Anodised	Black	4.82-6.85mm
PXM06086FANBK4868	Category 6a modular connector supplied	Anodised	Black	4.82-6.85mm

Plug with Cap



PXM0600

- IP68 when mated
- Male RJ45 to be installed
- Screw coupling
- Mates with Transversely Sealed Inline Plug, Jam Nut & Flange Mount
- Standard RJ45 cable to be sourced or modular connector



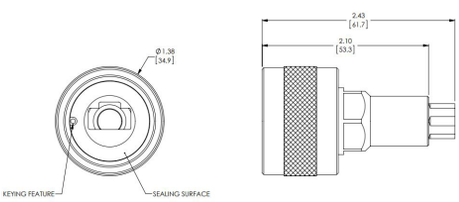
Part No.	Category	Plating	Colour	Cable Entry
PXM0600NSANBK4868	Standard RJ45 cable to be sourced	Anodised	Black	4.82-6.85mm
PXM0600NSANBK6883	Standard RJ45 cable to be sourced	Anodised	Black	6.88-8.38mm
PXM06006MANBK4868	Category 6a modular connector supplied	Electroless Nickel	Black	4.82-6.85mm
PXM06006MENBK4868	Category 6a modular connector supplied	Electroless Nickel	Black	4.82-6.85mm
PXM06006MENBK6883	Category 6a modular connector supplied	Electroless Nickel	Black	6.88-8.38mm

Plug



PXM0609

- IP68 when mated
- Male RJ45 to be installed
- Screw coupling
- Mates with Transversely Sealed Inline Plug, Jam Nut & Flange Mount
- Standard RJ45 cable to be sourced or modular connector



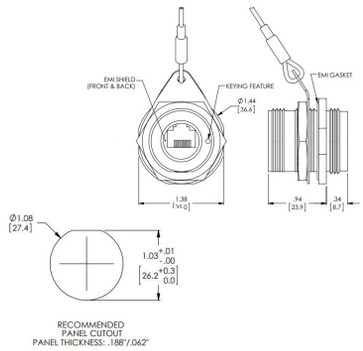
Part No.	Category	Plating	Colour	Cable Entry
PXM0609NSANBK4868	Standard RJ45 cable to be sourced	Anodised	Black	4.82-6.85mm
PXM0609NSANBK6883	Standard RJ45 cable to be sourced	Anodised	Black	6.88-8.38mm

Jam Nut with Cap



PXM0610

- IP68 when mated
- Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug
- Panel thickness: 1.5-5mm



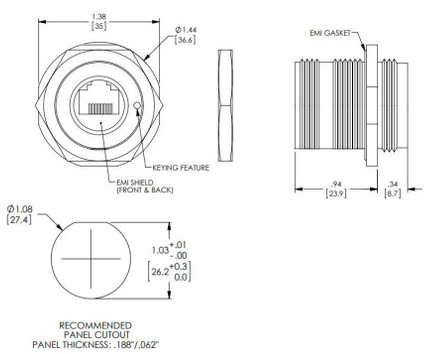
Part No.	Category	Plating	Colour	EMI Protection
PXM06105FANBKUS	Category 5e	Anodised	Black	Unshielded
PXM06106FENBKSH	Category 6a	Electroless Nickel	Black	Shielded

Jam Nut



PXM0619

- IP68 when mated
- Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug
- Panel thickness: 1.5-5mm



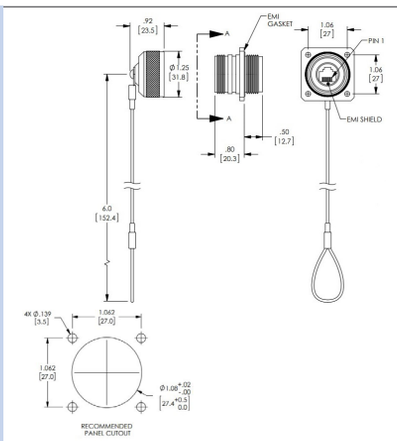
Part No.	Category	Plating	Colour	EMI Protection
PXM06195FANBKUS	Category 5e	Anodised	Black	Unshielded

Transversely Sealed Flange Mount



PXM0628

- IP68 when mated & unmated
- Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug



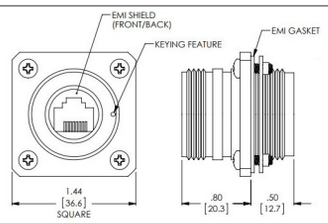
Part No.	Category	Plating	Colour	EMI Protection
PXM06285FANBKUS	Category 5e	Anodised	Black	Unshielded

Flange Mount with Cap & Mounting Hardware



PXM0627

- IP68 when mated
- Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug
- Panel thickness: 1.5-5mm





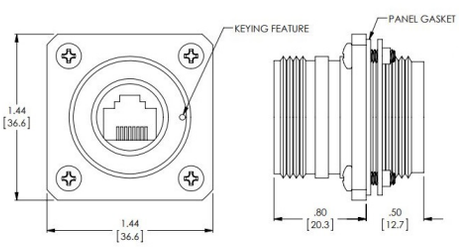
Part No.	Category	Plating	Colour	EMI Protection
PXM06275FANBKUS	Category 5e	Anodised	Black	Unshielded
PXM06276FENBKSH	Category 6a	Electroless Nickel	Black	Shielded
PXM06276FANBKUS	Category 6a	Anodised	Black	Unshielded

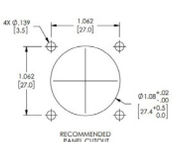
Flange Mount with Mounting Hardware



PXM0626

- IP68 when mated
- Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug
- Panel thckness: 1.5-5mm





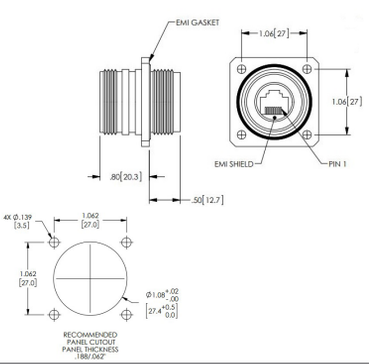
Part No.	Category	Plating	Colour	EMI Protection
PXM06265FANBKUS	Category 5e	Anodised	Black	Unshielded

Flange Mount



PXM0629

- IP68 when mated
- Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug



Part No.	Category	Plating	Colour	EMI Protection
PXM06295FANBKUS	Category 5e	Anodised	Black	Unshielded

600 Series - Ethernet Buccaneer

Product Specification:

Electrical

Shock Resistance:	100g 6ms
Humidity:	98%
Insertion Loss:	1000 BASE-T
Hi-pot high-voltage Test:	600VAC-60Hz, 900uA
Shell-to-shell conductivity:	1A @ 1.5VDC, 100hrs
Electromagnetic Shielding Effectiveness:	20kHz, 150kHz, 14MHz, 400MHz, 600MHz, 1GHz, 2GHz, 8GHz, 10GHz, vert. and horz., <-60dB

Material:

Body:	Aluminium
Plating:	Available in Anodised, Electroless Nickel
Hardware:	Stainless Steel
Seals:	Silicone
Flammability:	Compliant to V0, V1, 10sec each
Lanyard:	Stainless Steel
RoHS	Compliant

Mechanical:

Cycles:	>500
Sealing:	IP68, 1m depth for 48hrs
Dust Test:	20mBAR air pressure, 8hrs
Termination:	Crimp terminals
Salt Spray:	500hr
Mechanical Shock:	100G (6ms)
Operating Temperature Range:	-40° C to +100° C
Panel Mount Thickness:	1.5-5mm
Panel Mount Nut Torque:	1.6-1.7Nm

6000 Series Buccaneer - circular connectors that combine the ease of use of a push/pull coupling mechanism with proven environmental sealing. The series supports USB, Ethernet, and HDMI, engineered to perform in extreme conditions.

Designed and independently tested to IP68 & IP69K standards, they are ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are important considerations.

6000 Series Data Connectors – USB | Ethernet | HDMI

- **Connector Types:** USB (Type A & B), Ethernet, HDMI
- **Locking Mechanism:** 30° quick-turn for fast, secure engagement
- **Environmental Protection:** IP68, IP69K rated
- **USB Standards** Supported: USB 2.0 (4-contact), USB 3.0 (9-contact)
- **Materials:** Metal (Ethernet only) and durable plastic housing
- **Applications:** Industrial, marine, and harsh environment use
- **Features:** Waterproof circular connectors, plug-and-play simplicity, compact design



Designed for demanding applications, our sealed RJ45 connectors—including the robust 6000 Series Ethernet— deliver up to Cat 6a performance, or high performance Cat 5e and Cat 6a ethernet connections while withstanding the toughest environmental conditions. Engineered to ensure fast, reliable data transmission, these industrial-grade solutions protect network integrity even in the most challenging settings.

With IP68, and IP69K ratings, our waterproof circular RJ45 connectors are ideal for outdoor and industrial use across markets such as Industrial Automation, Automotive and Marine—setting the gold standard in sealed Ethernet connectivity.

- IP68 when mated, Tested in accordance with EN60529:1992+A2:2013
- IP69K when mated, Tested in accordance with DIN 40050/Part 9 IP69k
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- Secure, proven 30 degree twist lock locking mechansim
- PUR / PVC Jacket on cable
- Chemical resistance & flame retardant
- Data rates up to 10Gbps
- Backwards compatibility throughout
- Cat 5e or Cat 6a Shielded coupler
- Rewireable Flex connector up to Cat 6a
- Field termination up to Cat 6a
- Earth lead version of panel mounting coupler
- High noise immunity, full shielding and EMI protection
- Power over Ethernet (PoE) compliant

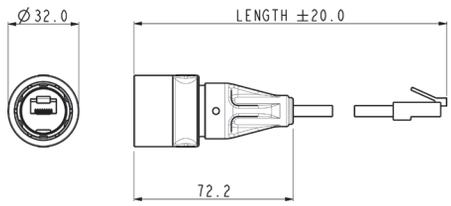


Patch Cord Flex Connector - PUR Jacket Cable



PXP6037
PXP6097

- Mates with front panel mounting connectors
- 30° twist locking
- Overmoulded patchcords with IP68 rated connector
- Supplied with shielded RJ45 plug
- Single end terminated
- Standard lengths: 2m, 3m & 5m
- S-FTP cable construction
- PUR jacket cable
- Wiring configuration to 568-B
- Cat 5e & Cat 6a options



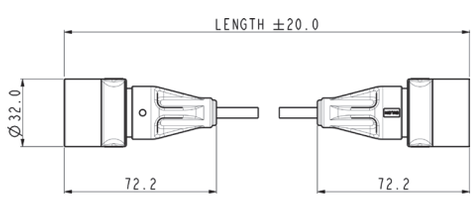
Part no	Type	Length	Description
PXP6037/2M00	Single ended	2m	IP68 rated Cat 5e RJ45 Buccaneer to Cat 5e RJ45
PXP6037/3M00	Single ended	3m	IP68 rated Cat 5e RJ45 Buccaneer to Cat 5e RJ45
PXP6037/5M00	Single ended	5m	IP68 rated Cat 5e RJ45 Buccaneer to Cat 5e RJ45
PXP6097/2M00	Single ended	2m	IP68 rated Cat 6a RJ45 Buccaneer to Cat 6a RJ45
PXP6097/3M00	Single ended	3m	IP68 rated Cat 6a RJ45 Buccaneer to Cat 6a RJ45
PXP6097/5M00	Single ended	5m	IP68 rated Cat 6a RJ45 Buccaneer to Cat 6a RJ45

Patch Cord Flex Connector - PUR Jacket Cable



PXP6038
PXP6098

- Mates with front panel mounting connectors
- 30° twist locking
- Overmoulded patchcords with IP68 rated connector
- Supplied with shielded RJ45 plug
- Double end terminated
- Standard lengths: 2m, 3m & 5m
- S-FTP cable construction
- PUR jacket cable
- Wiring configuration to 568-B
- Cat 5e & Cat 6a options



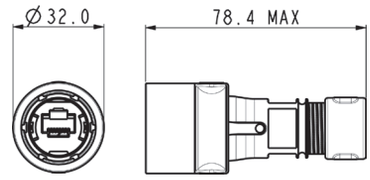
Part no	Type	Length	Description
PXP6038/2M00	Double ended	2m	IP68 rated Cat 5e RJ45 Buccaneer to IP68 rated Cat 5e RJ45
PXP6038/3M00	Double ended	3m	IP68 rated Cat 5e RJ45 Buccaneer to IP68 rated Cat 5e RJ45
PXP6038/5M00	Double ended	5m	IP68 rated Cat 5e RJ45 Buccaneer to IP68 rated Cat 5e RJ45
PXP6098/2M00	Double ended	2m	IP68 rated Cat 6a RJ45 Buccaneer to IP68 rated Cat 6a RJ45
PXP6098/3M00	Double ended	3m	IP68 rated Cat 6a RJ45 Buccaneer to IP68 rated Cat 6a RJ45
PXP6098/5M00	Double ended	5m	IP68 rated Cat 6a RJ45 Buccaneer to IP68 rated Cat 6a RJ45

Rewireable Flex Connector



PXP6034
PXP6094

- Mates with panel mounting connectors
- 30° twist locking
- Supplied with shielded RJ45 plug
- Three versions:
- For PUR Cat 5e Cable
- For other Cat 5e Cable sizes from 4-7mm dia.
- For Cat 6a Cable sizes from 4-7mm dia.



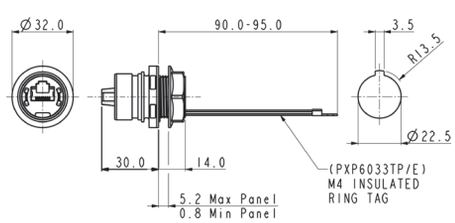
Part no	Description
PXP6034/A	IP68 rated Cat 5e RJ45 Rewireable Connector for use with PUR 4-5mm diameter cable
PXP6034/B	IP68 rated Cat 5e RJ45 Rewireable Connector for use with 4-7mm diameter cable
PXP6094/B	IP68 rated Cat 6a RJ45 Rewireable Connector for use with 4-7mm diameter cable

Front Panel Mounting Connector



PXP6033TP
PXP6093TP

- Sealed through panel
- Cat 5e or Cat 6a shielded coupler
- Mates with all plastic flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Version with earth wire available
- Single hole fixing
- Complete with panel sealing gasket



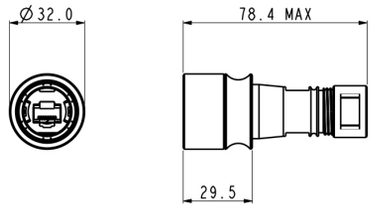
Part no	Description	Fixing
PXP6033TP	Cat 5e coupler	Front panel mounted - sealed through panel
PXP6033TP/E	Cat 5e coupler + earth wire	Front panel mounted - sealed through panel
PXP6093TP	Cat 6a Coupler	Front panel mounted - sealed through panel
PXP6093TP/E	Cat 6a Coupler + earth wire	Front panel mounted - sealed through panel

Re-wireable Flex Connector



PXM6034
PXM6094

- Mates with metal panel mounting connectors
- 30° twist locking
- Supplied with shielded RJ45 plug
- For three versions:
- For PUR Cat 5e Cable
- For other Cat 5e Cable sizes from 4-7mm diameter
- For Cat 6a Cable sizes from 4-7mm diameter



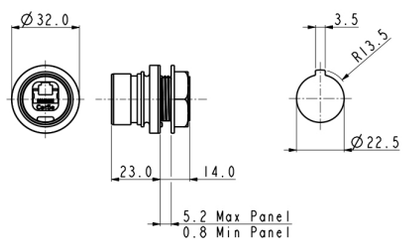
Part no	Description
PXM6034/A	IP68 rated Cat 5e RJ45 Rewireable Connector for use with PUR 4-5mm diameter cable
PXM6034/B	IP68 rated Cat 5e RJ45 Rewireable Connector for use with 4-7mm diameter cable
PXM6094/B	IP68 rated Cat 6a RJ45 Rewireable Connector for use with 4-7mm diameter cable

Front Panel Mounting Connector



PXM6033
PXM6093

- Sealed through panel
- Cat 5e or Cat 6a shielded coupler
- Mates with all metal flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Connector shell ground to cable screen
- Single hole fixing
- Complete with panel sealing gasket



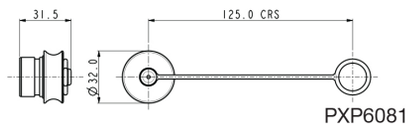
Part no	Description	Fixing
PXM6033TP	Cat 5e Coupler	Front panel mounted - sealed through panel
PXP6093TP	Cat 6a Coupler	Front panel mounted - sealed through panel

Sealing Caps

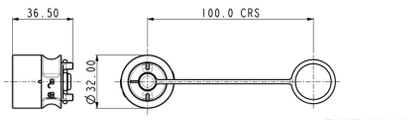


PXP6083 & PXP6081

- Sealing caps to maintain IP rating when connectors are not in use
- PXP6081 & PXP6083 for cable connectors with 30°twist lock



PXP6081



PXP6083

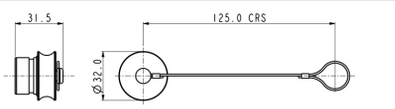
Part no	Description
PXP6081	Sealing Cap for plastic Flex cable connectors
PXP6083	Sealing Cap for plastic front panel mounting connector

Sealing Caps

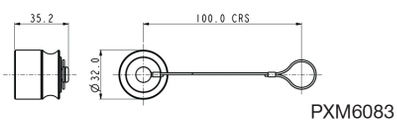


PXM6083 & PXM6081

- Sealing caps to maintain IP rating when connectors are not in use
- PXM6081 & PXM6083 for cable connectors



PXM6081



PXM6083

Part no	Description
PXM6081	Sealing Cap for metal Flex cable connectors
PXM6083	Sealing Cap for metal front panel mounting connector
14151	Hand crimp tooling + die set
14199	PUR Jacket Cat 5e cable
14150	Replacement shielded Cat 5e RJ45
15240	Replacement shielded Cat 6a RJ45
15241	PVC Jacket Cat 6a Cable - 50m reel

PXX	/	6XXX	/	XX	/	X or XXXX

Series Designation

PXP - Plastic
PXM - Metal

Series / Body Style

033 = Cat 5e Panel
034 = Cat 5e Re-wireable Flex
037 = Cat 5e Patchcord (Single Ended)
038 = Cat5e Patchcord (Double Ended)
093 = Cat 6a Panel
094 = Cat 6a Re-Wireable Flex
097 = Cat 6a Patchcord (Single Ended)
098 = Cat 6a Patchcord (Double Ended)

Panel Sealing

TP = through panel sealing (for use with panel body only)

Blank = not applicable

Characteristics

E = Earth lead (for use with plastic panel body only)
A = Glanding for PUR cable (for use with re-wireable flex only)
B = Glanding for 3.5 to 8mm cables (for use with re-wireable only)
2M00 = 2 metre cable length (for use with PXP6037 and PXP6038 patchcords only)
3M00 = 3 metre cable length (for use with PXP6037 and PXP6038 patchcords only)
5M00 = 5 metre cable length (for use with PXP6037 and PXP6038 patchcords only)
XM00 = X metre cable length (for use with PXP60X7 and PXP60X8)

Examples

PXP6033TP/E = Cat 5e panel mounted coupler, sealed through panel with earth lead

PXP6037/2M00 = Cat 5e patchcord with one sealed end, 2 metres long

PXM6034/A = Cat 5e flex re-wireable connector for use with PUR cable

PXM6033TP = Cat 5e panel mounted coupler, through panel sealed

Ethernet – Metal and Thermo-plastic versions

Connectors

Mechanical

Sealing	IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Operating Temperature	
Re-wireable and Metal	–20°C to +70°C
Overmoulded patchcords	0°C to +70°C

Materials - Overmoulded

Overmould material	PVC (black)
Flammability rating	UL94V-0

Materials - Re-wireable and Panel Connectors

Plastic	PC/PBT
Metal	Machined Brass, Nickel Plated
Flammability rating	UL94V-0
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - flange	Silicone
Approvals	
RoHS	Compliant

Stranded S-FTP Patch cord cable - PUR Jacket

Polyurethane (PUR) jacket cable with internal construction exceeding Cat 5e or Cat 6a performance levels. The PUR jacket has excellent abrasion, chemical and ozone resistance, low smoke, low halogen flame retardant construction suitable for internal and external industrial environments.

Cable-Cat5e

Conductors	24AWG (7/0.2mm) bare copper
Insulation	HD-PE
Pair	2 of the above cores twisted
Core	4 of the above cores
Tape	1 lap mylar tape
Screen	1 layer mylar and aluminium tape, 0.12mm tinned copper braid
Sheath	PUR Jacket Black
Op Temperature	–25°C to +85°C
Min. bend radius	10 x O/D (installation)
Min. bend radius	6 x O/D (installed)
Diameter	6.1mm nominal

Electrical @ 20°C

Characteristic Impedance	100Ω ±15Ω @ 100MHz
Capacitance	330pF/km
Conductor Loop resistance	29Ω/100m maximum
Skew	45 nsec/100m @ 100MHz
TIA/EIA Rating	Cat 5e & POE

Cable-Cat6a

Conductors	26AWG (7/0.2mm) bare copper
Insulation	HD-PE
Pair	2 of the above cores twisted
Core	4 of the above cores
Tape	1 lap mylar tape
Screen	1 layer mylar and aluminium tape, 0.10mm tinned copper braid
Sheath	PUR Jacket Black
Op Temperature	–25°C to +80°C
Min. bend radius	10 x O/D (installation)
Min. bend radius	6 x O/D (installed)
Diameter	6.0mm nominal

PCB adaptor leads

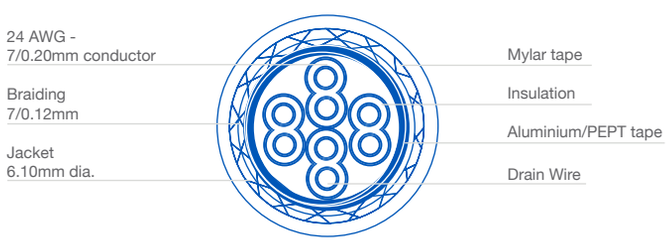
Electrical

No. of conductors	4
Current rating	350mA
Voltage rating	37V - 57V
Contact resistance	<10mΩ max.
PCB pitch	2.54mm

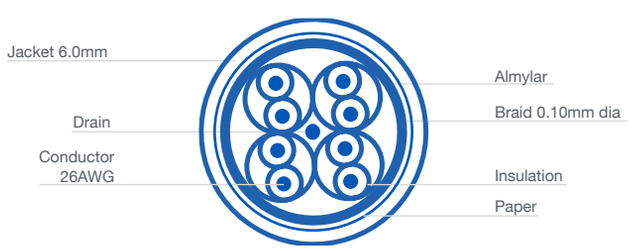
Materials

Moulding	Polycarbonate
Flammability	UL94V-0
Contact material	Copper Alloy
Contact plating	30 micro inch Gold
Wire insulation	PVC (black)
Flammability	UL94V-0
Conductors	4 x 28AWG
Operating temperature	0°C to +70°C
Mating cycles	1,000
RoHS	Compliant

Cable construction - Cat 5e



Cable construction - Cat 6a



The 6000 HDMI Buccaneer Series offers robust and high performance connectivity solutions tailored for demanding industrial environments.

Rated IP69K when mated, ensuring superior protection against high-pressure and high-temperature water jets.

30° twist locking
Tamperproof lock prevents accidental un-mating

IP68 and IP69K when mated
Suitable for a wide range of dust and water borne environments

Independent sealing tests
IP Ratings independently verified

Plug and play capability
Hot pluggable

Single and double ended cables

Push-pull latching system
Secure, instant latching. Quick connector mating and release

Visual mating indication
Alignment indicator reduces risk of damage during mating

EN60068-2-52 Test Kb Salt Mist (Cyclic)
Marine Severity Level 1

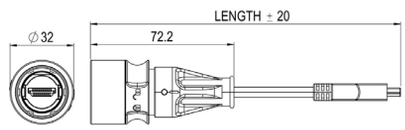


HDMI Cord Flex Connector – Single Ended



PXP6060

- Mates with front panel mount connectors
- 30° twist locking
- Overmounded cable assemblies
- IP68 HDMI connector to standard HDMI connector
- Available in 2m, 3m & 5m lengths



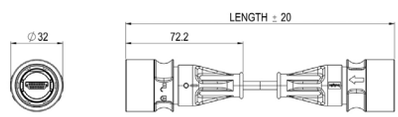
Part no	Type	Length	Description
PXP6060/2M00	Single ended	2m	IP68 HDMI male to standard HDMI male
PXP6060/3M00	Single ended	3m	IP68 HDMI male to standard HDMI male
PXP6060/5M00	Single ended	5m	IP68 HDMI male to standard HDMI male

HDMI Cord Flex Connector – Double Ended



PXP6061

- Mates with front panel mounting connectors
- Overmounded cable assemblies
- IP68 HDMI connector
- Available in 2m, 3m & 5m length



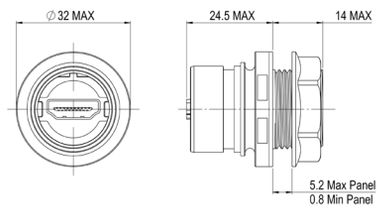
Part no	Type	Length	Description
PXP6061/2M00	Double ended	2m	IP68 HDMI male to IP68 HDMI male
PXP6061/3M00	Double ended	3m	IP68 HDMI male to IP68 HDMI male
PXP6061/5M00	Double ended	5m	IP68 HDMI male to IP68 HDMI male

Front panel mounting HDMI connector



PXP6062

- Mates with all 6000 Series HDMI flex connectors
- Standard HDMI Female socket on rear
- Single hole fixing
- IP68 when mated
- Complete with panel sealing gasket



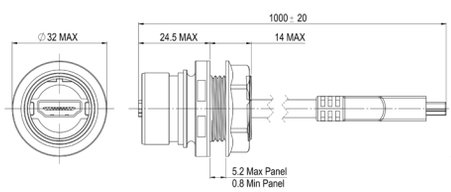
Part no	Description	Fixing
PXP6062	HDMI Coupler	Front panel mounted. Sealed IP68 at front, standard HDMI at rear

Front panel mounting HDMI connector



,PXP6062

- Mates with all 6000S HDMI flex connectors
- Standard HDMI Male plug on rear
- Single hole fixing
- IP68 when mated
- Complete with panel sealing gasket



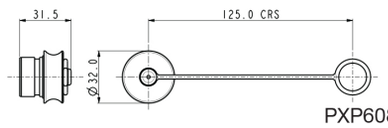
Part no	Description	Fixing
PXP6062/1M00	HDMI Panel Mount with 1m Lead	Front panel mounted. Sealed IP68 at front, standard HDMI male at rear

Sealing Caps

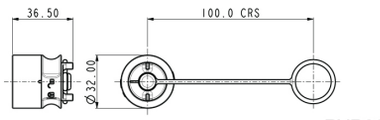


PXP6081 & PXP6083

- Sealing caps to maintain IP rating when connectors are not in use
- PXP6081 for all cable connectors
- PXP6083 for front panel mount connectors with 30°twist lock



PXP6081



PXP6083

Part no	Description
PXP6081	Sealing Cap for plastic Flex cable connectors
PXP6083	Sealing Cap for plastic front panel mounting connector

PXP	/ 6XXX	/ XXXX

Series Designation

Series / Body Style

060 = Single Ended
061 = Double Ended
062 = Front Panel Mount

Cable Length

Blank = With adaptor (PXP6062 only)
1M00 = 1 metre lead (PXP6062 only)
2M00 = 2 metre cable length
3M00 = 3 metre cable length
5M00 = 5 metre cable length

Connectors

Mechanical

Sealing	IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) EN60529:1992+A2:2013
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Operating Temperature Connectors

Overmoulded patchcords	0°C to +70°C

Materials - Overmoulded

Overmould material	PVC (black)
Flammability rating	UL94V-0

Materials - Panel Connectors

Shell material	Steel
Shell plating	Nickel
Contacting material	Brass
Contact plating	Tin & Gold
Connector body & locking ring	PC/PBT
Panel connector	PC/PBT
Flammability rating	UL94V-0
'O' rings	Silicone
Panel Gasket - round	Silicone
Mating cycles	1,000
RoHS	Compliant

Materials - Cable

Cable Jacket	PVC (Black)
Braid	Aluminium-Magnesium Alloy
Screen Foil	Aluminium Foil
Insulation	HDPE and F-PE
Drain Wire	Tin Copper Alloy
Flammability Rating	UL94V-0

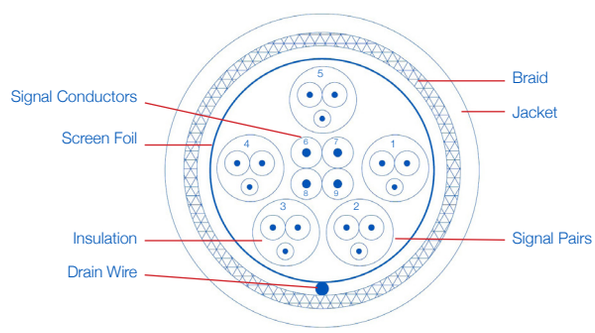
Length	Dia	Conductor Signal	Conductors Power
2m	6.0mm	4 x 30AWG	5 x 30AWG
3m	6.0mm	4 x 30AWG	5 x 30AWG
5m	7.3mm	1 x 28AWG	4 x 28AWG
		3 x 30AWG	1 x 32AWG

PCB adaptor leads

Electrical

No. of conductors	19
Current rating	0.5A
Voltage rating	30V AC (RMS)
Contact resistance	40mΩ max.
Withstanding Voltage	500V AC RMS
Performance	Ultra High Speed HDMI™ Cable with Ethernet

Cable construction - PXP6060, PXP6061 and PXP6062



6000 Series - USB Buccaneer

6000 Series USB is a range of waterproof circular connectors that combine an easy to use 30 degree quick turn locking mechanism with proven environmental sealing. Our type ‘A’ or ‘B’ USB cable assemblies and panel mount receptacles enable simple and reliable plug and play connections in harsh environments.

Available in rugged plastic bodies, this IP68/69K sealed USB connector range is ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are important considerations.

30° twist locking
Tamperproof lock prevents accidental un-mating

IP68 and IP69K when mated
Suitable for a wide range of dust and water borne environments

Independent sealing tests
IP Ratings independently verified

USB version 3.0 performance
High speed bus connection, up to 5Gbps

Plug and play capability
Hot pluggable, USB 2.0 with 4 contact interface, USB 3.0 with 9 contact interface

Single and double ended cables
Suitable for PCB and peripheral configuration

Push-pull latching system
Secure, instant latching. Quick connector mating and release

Visual mating indication
Alignment indicator reduces risk of damage during mating

EN60068-2-52 Test Kb Salt Mist (Cyclic)
Marine Severity Level 1



Sealed USB Cables - Single Ended



PXP6040/A



PXP6040/B



PXP6040/AA

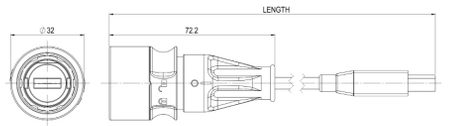


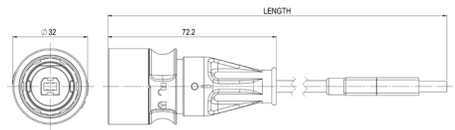
PXP6040/AA3

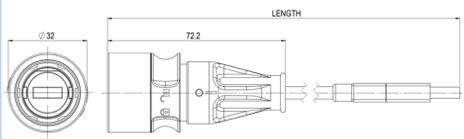


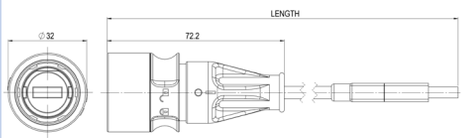
PXP6040/AC

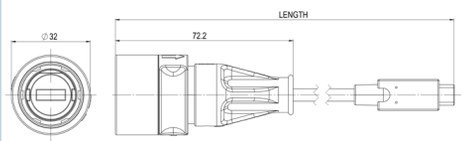
- Single ended sealed cable assembly
- Mates with equivalent panel mounting connectors
- 30° twist locking
- Available in 2m, 3m & 5m lengths
- Three offerings:
- IP68 rated 'A' type USB 2.0 connector to standard 'A' type USB connector, mates with all 'A' type panel mount connectors
- IP68 rated 'A' type USB 3.0 connector to standard 'A' type USB connector, mates with all 'A' type panel mount connectors
- IP68 rated 'A' type USB 3.0 connector to standard 'C' type USB connector (USB C connector for use with device side only), mates with all 'A' type panel mount connectors.











Part no	Length	Description
PXP6040/A/2M00	2m	IP68 rated A type USB to standard B type USB (USB 2.0)
PXP6040/A/3M00	3m	IP68 rated A type USB to standard B type USB (USB 2.0)
PXP6040/A/5M00	5m	IP68 rated A type USB to standard B type USB (USB 2.0)
PXP6040/B/2M00	2m	IP68 rated B type USB to standard A type USB (USB 2.0)
PXP6040/B/3M00	3m	IP68 rated B type USB to standard A type USB (USB 2.0)
PXP6040/B/5M00	5m	IP68 rated B type USB to standard A type USB (USB 2.0)
PXP6040/AA/2M00	2m	IP68 rated A type USB to Standard A type USB (USB 2.0)
PXP6040/AA/3M00	3m	IP68 rated A type USB to Standard A type USB (USB 2.0)
PXP6040/AA/5M00	5m	IP68 rated A type USB to Standard A type USB (USB 2.0)
PXP6040/AA3/2M00	2m	IP68 rated A type USB to Standard A type USB (USB 3.0)
PXP6040/AA3/3M00	3m	IP68 rated A type USB to Standard A type USB (USB 3.0)
PXP6040/AA3/5M00	5m	IP68 rated A type USB to Standard A type USB (USB 3.0)
PXP6040/AC/2M00	2m	IP68 rated A type USB to Standard C type USB (USB 3.0)
PXP6040/AC/3M00	3m	IP68 rated A type USB to Standard C type USB (USB 3.0)
PXP6040/AC/5M00	5m	IP68 rated A type USB to Standard C type USB (USB 3.0)

6000 Series - USB Buccaneer

USB Thermo Plastic

Sealed USB Cables - Double Ended



PXP6041/AB

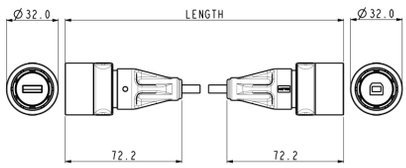


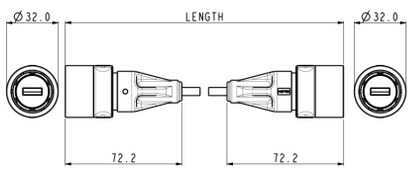
PXP6041/AA

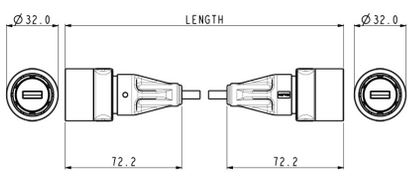


PXP6041/AA3

- Double ended sealed cable assembly
- Mates with equivalent panel mount connectors
- 30° twist locking
- IP68 rated “A’ type USB 3.0 connector to IP68 rated ‘A’ type USB 3.0 connector, mates with all ‘A’ type panel mount connectors
- Available in 2m, 3m & 5m lengths







Part no	Length	Description
PXP6041/AB/2M00	2m	IP68 rated A type USB to IP68 rated B type USB (USB 2.0)
PXP6041/AB/3M00	3m	IP68 rated A type USB to IP68 rated B type USB (USB 2.0)
PXP6041/AB/5M00	5m	IP68 rated A type USB to IP68 rated B type USB (USB 2.0)
PXP6041/AA/2M00	2m	IP68 rated A type USB to IP68 rated A type USB (USB 2.0)
PXP6041/AA/3M00	3m	IP68 rated A type USB to IP68 rated A type USB (USB 2.0)
PXP6041/AA/5M00	5m	IP68 rated A type USB to IP68 rated A type USB (USB 2.0)
PXP6041/AA3/2M00	2m	IP68 rated A type USB to IP68 rated A type USB (USB 3.0)
PXP6041/AA3/3M00	3m	IP68 rated A type USB to IP68 rated A type USB (USB 3.0)
PXP6041/AA3/5M00	5m	IP68 rated A type USB to IP68 rated A type USB (USB 3.0)

Front Panel Mounting Connector

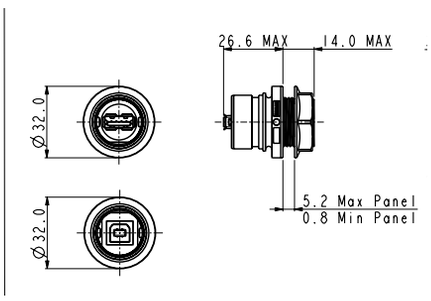


PXP6042/A
PXP6042/B



PXP6042/AA
PXP6042/AA3

- PXP6042/A - USB ‘A’ type IP68 rated connector
- PXP6042/B - USB ‘B’ type IP68 rated connector
- Mates with PXP6040 and PXP6041 cable connectors



Part no	Description
PXP6042/A	IP68 rated A type USB to standard B type USB (USB 2.0)
PXP6042/B	IP68 rated B type USB to standard A type USB (USB 2.0)
PXP6042/AA	IP68 rated A type USB to standard A type USB (USB 2.0)
PXP6042/AA3	IP68 rated A type USB to standard A type USB (USB 3.0)

Front Panel Mounting Connector

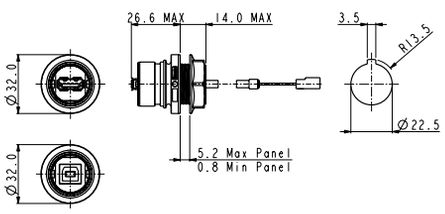


PXP6043/A
PXP6043/B



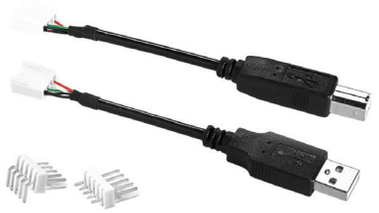
PXP6043/AA3

- PXP6043/A - USB ‘A’ type IP68 rated connector
- PXP6043/B - USB ‘B’ type IP68 rated connector
- PXP6043/AA3 - USB ‘A3’ type IP68 rated connector
- Leaded with 5 or 10 way crimp connector
- Mates with PXP6040 and PXP6041 cable connectors

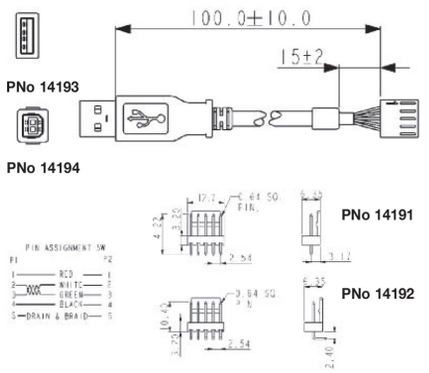


Part no	Description
PXP6043/A	IP68 rated A type USB, front panel mounted. Sealed A type at front of panel, 5 way crimp connector at rear (USB 2.0)
PXP6043/B	IP68 rated B type USB, front panel mounted. Sealed B type at front of panel, 5 way crimp connector at rear (USB 2.0)
PXP6043/AA3	IP68 rated A type USB, front panel mounted. Sealed A type at front of panel, 10 way crimp connector at rear (USB 3.0)

PCB Adaptor Leads



- Standard A and B type USB connectors to 5 way crimp adaptor leads
- 5 way headers, 2.54mm pitch, horizontal or vertical mounting
- Standard A type USB 3.0 to 10-way crimp adaptor leads



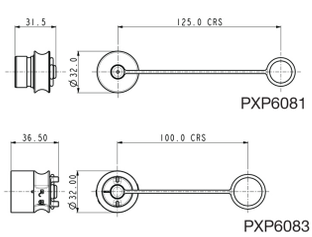
Part no		Description
14193		USB 2.0 ‘A’ type to 5 way crimp connector
14194		USB 2.0 ‘B’ type to 5 way crimp connector
100286		USB 3.0 ‘A’ type to 10 way crimp connector
14191		5 way PCB header straight
14192		5 way PCB header right angle
100287		10 way PCB header straight
100288		10 way PCB header right angle

Sealing Caps



PXP6081 & PXP6083

- Sealing caps to maintain IP rating when connectors are not in use
- PXP6081 for cable connectors
- PXP6083 for front panel mount connectors with 30° twist lock



Part no		Description
PXP6081		Sealing Cap for Flex cable connectors
PXP6083		Sealing Cap for front panel mounting connectors

PXP	/ 6XXX	/ X or XX or XXX	/ XXXX

Series Designation

Series / Body Style

040 = Single ended cable
041 = Double ended cable
042 = Panel with adaptor
043 = Panel with lead

Characteristics

A = 'A' type sealed to 'B' type open interface (USB 2.0)
B = 'B' type sealed to 'A' type open interface (USB 2.0)
AA = 'A' type to 'A' type open or sealed interfaces (USB 2.0)
AA3 = 'A' type to 'A' type open or sealed interfaces (USB 3.0)
AB = 'A' type sealed to 'B' type open interface (USB 2.0)
AC = 'A' type sealed to 'C' type open interface (USB 3.0)

Cable length

2M00 = 2 metre cable length (for use with 6040 and 6041 cables only)
3M00 = 3 metre cable length (for use with 6040 and 6041 cables only)
5M00 = 5 metre cable length (for use with 6040 and 6041 cables only)
Blank for 6042 & 6043 panel bodies

Examples

PXP6040/A/2M00 = Cable assembly with sealed 'A' type connector to unsealed 'B' type connector, 2 metres long

PXP6042/A = Panel mounted adapter with sealed 'A' type to unsealed 'B' type at rear
PXP6042/AA = Panel mounted adapter with sealed 'A' type to unsealed 'A' type (USB 2.0) at rear
PXP6042/AA3 = Panel mounted adapter with sealed 'A' type to unsealed 'A' type (USB 3.0) at rear

Cables & connectors

Mechanical

Sealing	IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) EN60529:1992+A2:2013
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Operating temperature	0°C to +70°C

Electrical

No. of Contacts	4
Current rating	1A
Voltage rating	30V AC (RMS)
Contact resistance	30mΩ max.
Performance	USB version 2.0

Materials - Overmoulded

Overmould material	PVC (black)
Flammability rating	UL94V-0

Materials - Panel Connectors

Plastic	PC/PBT
Metal	Machined Brass, Nickel Plated
Flammability rating	UL94V-0
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - flange	Silicone

Materials - cable

Cable Jacket	PVC (black)
Screen	Tinned copper braid
Flammability	UL94V-0
RoHS	Compliant

Length:	Dia	Conductors Signal	Conductors Power
2m	4.8mm	2 x 28AWG	2 x 24AWG
3m	5.0mm	2 x 28AWG	2 x 22AWG
5m	5.2mm	2 x 28AWG	2 x 20AWG

PCB adaptor leads

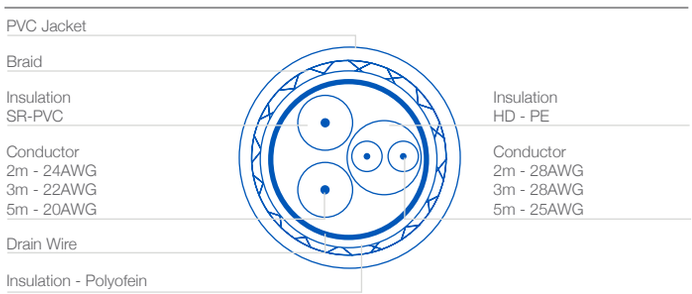
Electrical

No. of conductors	4
Current rating	1A
Voltage rating	30V AC (RMS)
Contact resistance	<10mΩ max.
PCB pitch	2.54mm

Materials

Moulding	Polycarbonate
Flammability	UL94V-0
Contact material	Copper Alloy
Contact plating	30 micro inch Gold
Wire insulation	PVC (black)
Flammability	UL94V-0
Conductors	4 x 28AWG
Operating temperature	0°C to +70°C
Mating cycles	1,000
RoHS	Compliant

Cable construction - PXP6040/A, PXP6040/B, PXP6040/AA, PXP6041/AA



Cables & connectors

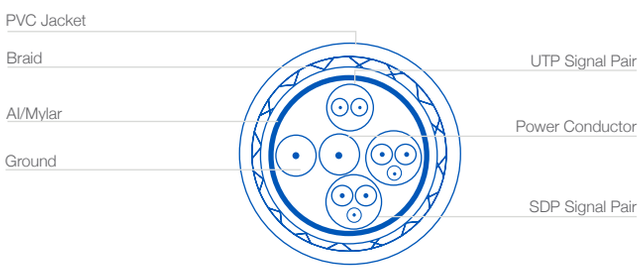
Mechanical	
Sealing	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
Operating temperature	0°C to +70°C
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Electrical	
No. of Contacts	9
Current rating	1A
Voltage rating	30V AC (RMS)
Contact resistance	30m Ω max.
Performance	USB version 3.0
Materials - Overmoulded	
Overmould material	PVC (black)
Flammability rating	UL94V-0
Materials - Panel Connectors	
Shell material	Steel
Shell plating	Nickel
Contact material	Copper Alloy
Contact plating	Gold
Connector body & locking ring	Glass Loaded Polyester
Panel connector	Acetal
Flammability rating	UL94 HB
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - square	Neoprene
Mating cycles	1,000
RoHS	Compliant
Materials - cable	
Cable Jacket	PVC (black)
Screen	Tinned copper braid
Flammability	UL94V-0
RoHS	Compliant

Length:	Dia	Conductors Signal	Conductors Power
2m	5.5mm	7 x 28AWG	2 x 24AWG
3m	5.5mm	7 x 28AWG	2 x 24AWG
5m	5.5mm	7 x 28AWG	2 x 24AWG

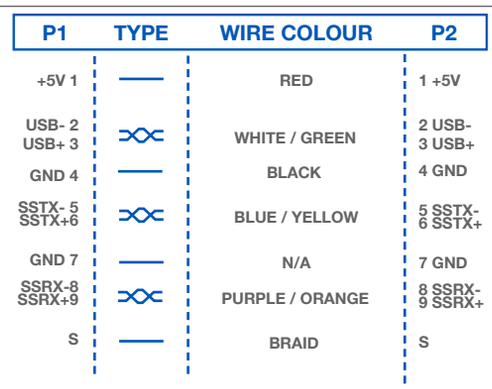
PCB adaptor leads

Electrical	
No. of conductors	9
Current rating	1A
Voltage rating	30V AC (RMS)
Contact resistance	30m Ω max.
PCB pitch	2.54mm
Materials	
Moulding	Polycarbonate
Flammability	UL94V-0
Contact material	Copper Alloy
Contact plating	Gold
Wire insulation	PVC (black)
Flammability	UL94V-0
Conductors	9 x 28AWG
Operating temperature	0°C to +70°C
Mating cycles	1,000
RoHS	Compliant

USB 3.0 Cable construction - PXP6040/A3, PXP6040/AC, PXP6041/AA3, PXP6042/AA3



USB 3.0 Contact Diagram - PXP6040/AA, PXP6040/A3, PXP6040/AC, PXP6041/AA3, PXP6042/AA3



The Bulgin Circular Fiber Connector range offer high quality and reliable fiber connectivity solutions. Suitable for use in industries such as, military, mining, marine, outdoor broadcast, FTTX (fibre to the x), server room engineering, civil engineering, marine, aviation and rail applications.



4000 Series - Simplex LC Fiber Buccaneer 166
6000 Series - Duplex LC Fiber Buccaneer 173
5000 Series - Expanded Beam 180

4000 Series - Simplex LC Fiber Buccaneer



- Sealed to IP66 IP68 and IP69K when mated
- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- Simplex LC-Type Interface
- Cabled Versions: 0S1, 0M1, 0M3
- Cable range from 5 to 450m
- Diameter over coupling ring 19.7mm
- Flex, Inline and Rear Panel
- Colour coded O-rings & washers for easy identificaiton purposes
- Secure, proven locking system
- Flame Retardant moulding material - Polyamide UL94-V0
- Tamper proof construction
- Sealing caps available to maintain IP68 rating
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

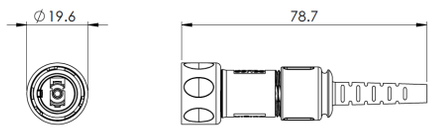
4000 Series - Simplex LC Fiber Buccaneer

Flex to LC Fiber Cable



PXF4050XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- 0S1, 0M1 or 0M3 cable options
- Termination options

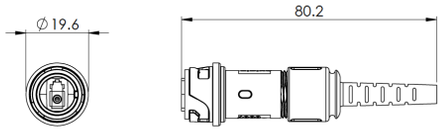


Inline to LC Fiber Cable



PXF4051XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- 0S1, 0M1 or 0M3 cable options
- Termination options

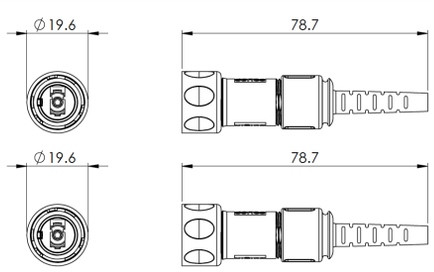


Flex to Flex Fiber Cable



PXF4054XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- 0S1, 0M1 or 0M3 cable options
- Termination options

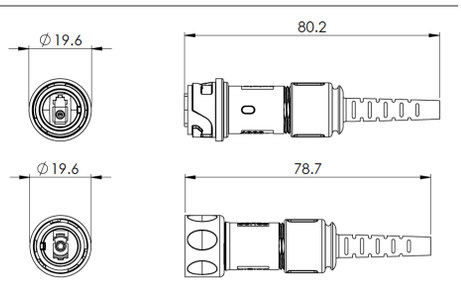


Flex to Inline Fiber Cable



PXF4055XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- 0S1, 0M1 or 0M3 cable options
- Termination options

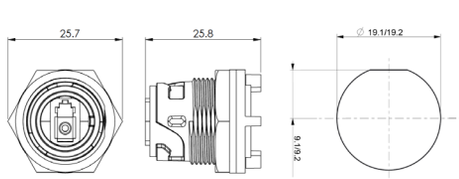


Rear Panel Mounting Connector



PXF4053XXX

- LC fiber adapter
- Leaded with LC connector
- Socket variant mates with PXF4050 type cables



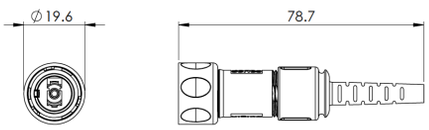
Part no.	Description
PXF4053	IP-Sealed LC Type, Rear Panel Mounted, LC Connector at Rear.

Flex Cable Connector



PXF4050

- Mates with Inline or Panel mounting versions PXF4051, PXF4053
- 30° turn locking ring
- Supplied without LC Connector

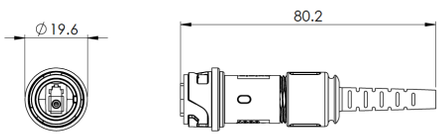


Inline Cable Connector



PXF4051

- Mates with Flex Cable connector PXF4050
- For Inline connection
- Supplied without LC Connector

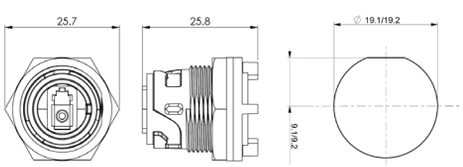


Rear Panel Mounting Connector



PXF4053

- Mates with Flex Cable connector PXF4050
- Rear Panel Mounting
- Single hole fixing
- Supplied without LC Connector



Sealing Caps



- Sealing caps to maintain IP rating when connectors are not in use

Part no.	Description
PXP4081	Sealing cap for use with PXF4050's
PXP4082	Sealing cap for use with PXF4051
PXP4083	Sealing cap for use with PXF4053's

O-ring & washer pack



Part no.	Description
PXP4089/YL	Yellow coloured O-ring and washer pack
PXP4089/BL	Blue coloured O-ring and washer pack
PXP4089/RD	Red coloured O-ring and washer pack
PXP4089/WH	White coloured O-ring and washer pack
PXP4089/GN	Green coloured O-ring and washer pack

4000 Series - Simplex LC Fiber Buccaneer

Cables & connectors

Mechanical

Sealing:	IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013
Panel Mount Nut:	1.0-1.1Nm (91lb.in)
Operating temperature:	-25°C to +70°C
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Optical

IEC 61753-1:	
Max Insertion Loss:	0.2db } single mode
AVG Insertion Loss:	0.1db } single mode

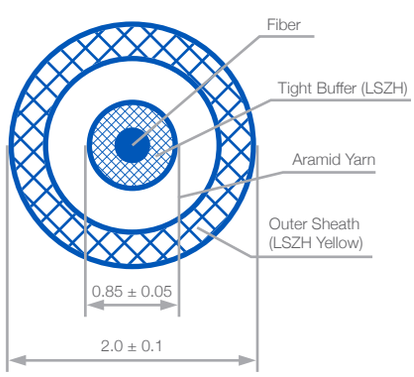
Material:

Body Mouldings:	Polyamide
Flammability Rating:	UL94v-0
UV Resistance:	To EN 500021:1999
O Rings:	Silicone
Panel Sealing O Ring:	Silicone
RoHS	Compliant

Fiber Specification - SECTION OSI

Item	Detail	Specification		
Fiber type:	/	G.657A2 (OS1)		
	Wavelength	1310nm		
Mode field diameter:	Range of nominal values	8.6μm-9.5μm±0.4μm		
Cladding diameter:	Dimension	125.0μm±0.7μm		
Core concentricity error:		≤0.5μm		
Cladding non-circularity:		≤1%		
Coating diameter:	Dimension	245μm±10μm		
Coating-cladding concentricity error:		≤12.5μm		
Cut-off wavelength:		≤1260nm		
Uncabled fiber macrobending loss:	Radius(mm)	15	10	7.5
	Number of turns	10	1	1
	Max. at 1550nm(dB)	0.03	0.1	0.5
	Max. at 1625nm(dB)	0.1	0.2	1.0
Min. proof stress:		0.69GPa		
Dynamic fatigue parameter:		≥20		
Chromatic dispersion coefficient:	λ0min	1300nm		
	λ0max	1324nm		
	S0max	0.092ps/nm2×km		
Other parameters meet standard:	ITU-T G.657			

Cable Construction (in mm):



Optical Cable Specification

Structure Parameter

Tight buffer:	Material	LSZH (Low-Smoke Zero-Halogen)
	Outer diameter	0.85mm±0.05mm
Strength member:	Material	Aramid yarn
Outer sheath:	Sheath material	LSZH (Low-Smoke Zero-Halogen)
	Sheath color	Yellow(Pantone 136C) Chromatic aberration E: ≤4.0
	Min. sheath thickness	0.3mm
	Dimension	2.0mm±0.1mm

Transmission Performance

Attenuation coefficient:	Wavelength 1310nm~1625nm	≤0.4dB/km		
	Maximum at 1383nm ±3nm	≤0.4dB/km		
	Wavelength 1550nm	≤0.3dB/km		
Macrobending loss	Radius(mm)	15	10	7.5
	Number of turns	10	1	1
	Max. at 1550nm(dB)	0.03	0.1	0.5
	Max. at 1625nm(dB)	0.1	0.2	1.0

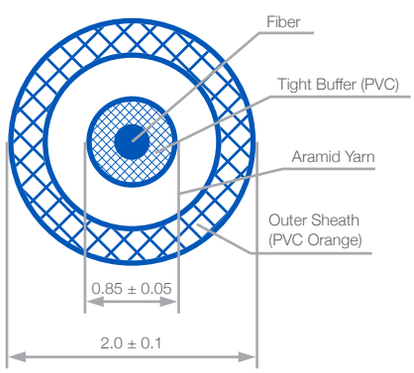
Other performances

Min. bending radius of work	10mm
Other parameter meet standard	IEC60794-2-50, YD/T1258.2, ITU-T G.657

Fiber Specification - SECTION OMI

Item	Detail	Specification
Fiber type:	/	62.5/125(A1b) (OM1)
Core diameter:	Dimension	62.5μm±3μm
Cladding diameter:	Dimension	125.0μm±2μm
Core-cladding concentricity error:		≤3μm
Cladding non-circularity:		≤2%
Core non-circularity:		≤6%
Primary coating diameter (uncoloured):	Dimension	245μm±10μm
Primary coating-cladding :		≤12.5μm
concentricity error:	Radius(mm)	37.5
Uncabled fiber macrobending loss:	Number of turns	100
	At wavelengths 850nm & 1310nm	0.5(dB)
Min. proof stress:		0.69GPa
Dynamic fatigue parameter:		≥20
Minimum modal bandwidth- length:	Wavelength 850nm	200MHzkm
Product for overfilled launch:	Wavelength 1310nm	500MHzkm
Other parameters meet standard:	IEC 60793-2-10	

Cable Construction (in mm):

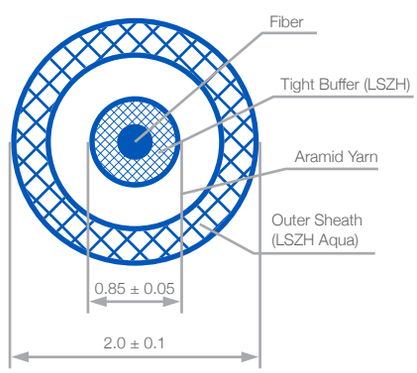


Optical Cable Specification

Item		Specification
Structure Parameter		
Tight buffer:	Material	PVC
	Outer diameter	0.85mm±0.05mm
Strength member:	Material	Aramid yarn
Outer sheath:	Sheath material	PVC
	Sheath color	Orange(Pantone 164C) Chromatic aberration E: ≤4.0
	Min. sheath thickness	0.3mm
	Dimension	2.0mm±0.1mm
Transmission Performance		
Attenuation coefficient	Wavelength 850m	≤3.5dB/km
	Wavelength 1300nm	≤1.5dB/km
Other performances		
Min. bending radius of work		30mm
Other parameter meet standard		IEC60794-2-50, YD/T1258.2

Fiber Specification - SECTION OM3

Item	Detail	Specification
Fiber type:	/	50/125(OM3)
Core diameter:	Dimension	50μm±2.5μm
Cladding diameter:	Dimension	125.0μm±2μm
Core-cladding concentricity error:		≤3μm
Cladding non-circularity:		≤2%
Core non-circularity:		≤6%
Primary coating diameter (uncoloured):	Dimension	245μm±10μm
Primary coating-cladding concentricity error		≤12.5μm
Uncabled fiber macrobending loss	Radius(mm)	15 7.5
	Number of turns	2 2
	Max. at 850nm(dB)	0.1 0.2
	Max. at 1310nm(dB)	0.3 0.5
Min. mode bandwidth:	Overfilled launch bandwidth at 850nm	1500MHz.km
	Overfilled launch bandwidth at 1310nm	500MHz.km
	Effective laser launch bandwidth at 850nm	2000MHz.km
Min. proof stress:		0.69GPa
Dynamic fatigue parameter:		≤20
Chromatic dispersion coefficient:	λ0min	1295nm
	λ0max	1340nm
	S0max(from1295nm≤λ0≤1310nm)	0.105ps/nm^2×km
	S0max(from1310nm≤λ0≤1340nm)	0.000375(1590-λ_0) ps/nm^2×km
Other parameters meet standard:	IEC 60793-2-10	



Optical Cable Specification

Item		Specification
Structure Parameter		
Tight buffer:	Material	LSZH
	Outer diameter	0.85mm±0.05mm
Strength member:	Material	Aramid yarn
Outer sheath:	Sheath material	LSZH
	Sheath color	Aqua(Pantone 3248C) Chromatic aberration E: ≤4.0
	Min. sheath thickness	0.3mm
	Dimension	2.0mm±0.1mm
Transmission Performance		
Attenuation coefficient:	Wavelength 850nm	≤3.5dB/km
	Wavelength 1300nm	≤1.5dB/km
Macrobending loss:	Radius (mm)	15 7.5
	Number of turns	2 2
	Max. at 850nm(dB)	0.1 0.2
	Max. at 1310nm(dB)	0.3 0.5
Other performances		
Min. bending radius of work:		10mm
Other parameter meet standard:		IEC60794-2-50, YD/T1258.2

PXF405 x	/	X	/	XX

Body Styles

PXF4050
PXF4051
PXF4053
PXF4054
PXF4055

Cable Type

Blank = No cable
A = OS1 (Singlemode)
B = OM1 (Multimode)
C = OM3 (Multimode)

Cable Length (m)

Blank = No Cable
AA = 1
(1m on Chassis Version Only PXF4053)
AA = 5
AB = 10
AC = 25
AD = 50
AE = 100
AF = 150
AG = 200
AH = 300
AJ = 450

Examples:

PXF4050 = Flex Connector, No Cable
PXF4050AAA = Flex Connector, OS1 Single Mode Cable, 5 Metre Length to LC Type Connector
PXF4053BAA = Panel Mount Connector, OM1 Multi Mode Cable, 1 Metre Length to LC Type Connector

6000 Series - Duplex LC Fiber Buccaneer



- Sealed to IP66 IP68 and IP69K when mated
- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- Duplex LC-Type Interface
- Cabled Versions: 0S1, 0M1, 0M3
- Cable range from 5 to 450m
- Diameter over coupling ring 32.0mm
- Flex, Inline and Front Panel
- Secure, proven locking system
- 30° twist locking. Tamperproof lock prevents accidental un-mating
- All plastic body version; UL94-V0 rated, UV stable, halogen free Light-weight, self-extinguishing material suitable for long-term outdoor use.
- Sealing caps available to maintain IP68 rating
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

6000 Series - Duplex LC Fiber Buccaneer

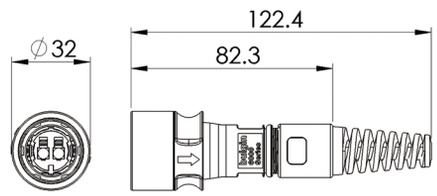
Duplex Flex to LC Fiber Cable



PXF6050XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- 0S1, 0M1 or 0M3 cable options

*Fiber assignment on page 179



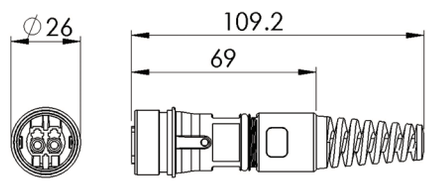
Duplex Inline to LC Fiber Cable



PXF6051XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- 0S1, 0M1 or 0M3 cable options

*Fiber assignment on page 179



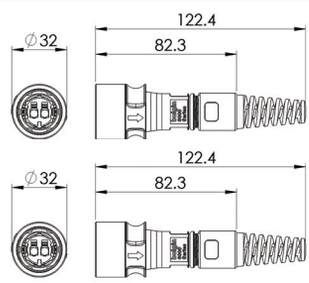
Duplex Flex to Flex Fiber Cable



PXF6054XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- 0S1, 0M1 or 0M3 cable options

*Fiber assignment on page 179



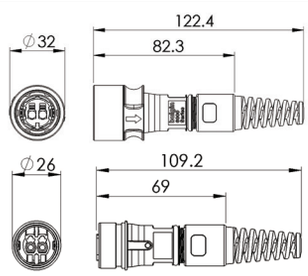
Dublex Flex to Inline Fiber Cable



PXF6055XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- 0S1, 0M1 or 0M3 cable options

*Fiber assignment on page 179



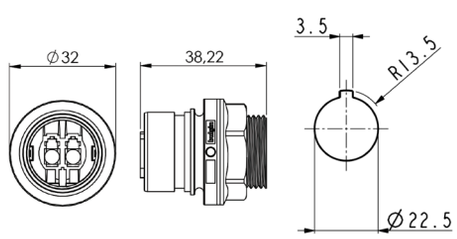
Front Panel Mounting Connector



PXF6052XXX

- LC fiber adapter
- Leaded with LC connector
- Socket variant mates with PXF6050 type connectors

*Fiber assignment on page 179



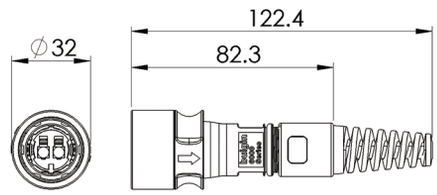
6000 Series - Duplex LC Fiber Buccaneer

Flex Cable Connector



PXF6050X

- Mates with Inline or Panel mounting versions PXF6051, PXF6053
- 30° turn locking ring
- Supplied without LC Connectors

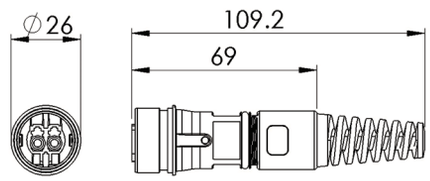


Inline Cable Connector



PXF6051X

- Mates with Flex Cable connector PXF6050
- For Inline connection
- Supplied without LC Connectors

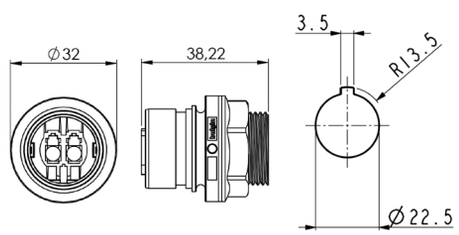


Front Panel Mounting Connector



PXF6052X

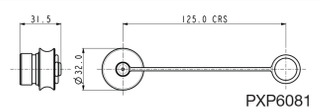
- Mates with Flex Cable connector PXF6050
- Rear Panel Mounting
- Single hole fixing
- Supplied without LC Connectors



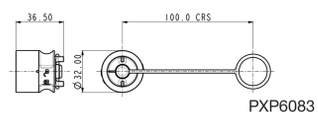
Sealing Caps



- Sealing caps to maintain IP rating when connectors are not in use
- PXP6081 for cable connectors PXF6050.
- PXP6083 for front panel mount connectors PXF6052 & PXF6051, with 30° twist lock



PXP6081



PXP6083

Part No.	Description
PXP6081	Sealing Cap for Flex cable connectors (PXF6050)
PXP6083	Sealing Cap for front panel mounting connector (PXF6052, PXF6051)

6000 Series - Duplex LC Fiber Buccaneer

Cables & connectors

Mechanical

Sealing :	IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013
Panel Mount Nut:	1.0-1.1Nm (91lb.in)
Operating temperature:	-25°C to +70°C
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Optical

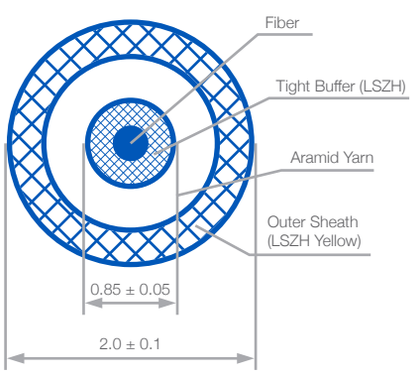
IEC 61753-1:	
Max Insertion Loss:	0.2db } single mode
AVG Insertion Loss:	0.1db } single mode

Material:

Body Mouldings:	Polyamide
Flammability Rating:	UL94v-0
UV Resistance:	To EN 500021:1999
Cable Outer Jacket:	Polyethylene for UV and Weather Resistance
O Rings:	Silicone
Panel Sealing O Ring:	Silicone
RoHS	Compliant

Fiber Specification - SECTION OSI

Item	Detail	Specification		
Fiber type:	/	G.657A2 (OS1)		
	Wavelength	1310mm		
Mode field diameter:	Dimension	8.6μm-9.5μm±0.4μm		
Cladding diameter:	Dimension	125.0μm±0.7μm		
Core concentricity error:		≤0.5μm		
Cladding non-circularity:		≤1%		
Coating diameter:	Dimension	245μm±10μm		
Coating-cladding concentricity error:		≤12.5μm		
Cut-off wavelength:	Radius(mm)	≤1260nm		
Uncabled fiber macrobending loss:	Number of turns	15	10	7.5
	Max. at 1550nm(dB)	10	1	1
	Max. at 1625nm(dB)	0.03	0.1	0.5
Min. proof stress:		0.1	0.2	1.0
Dynamic fatigue parameter:		0.69GPa		
	λ0min	≥20		
Chromatic dispersion coefficient:	λ0max	1300nm		
	S0max	1324nm		
		0.092ps/nm2×km		
Other parameters meet standard:	ITU-T G.657			



Optical Cable Specification

Structure Parameter

Tight buffer:	Material	Polyolefin (POE)
	Outer diameter	0.85mm±0.05mm
Strength member:	Material	Aramid yarn
Outer sheath:	Sheath material	Polyolefin (POE)
	Sheath color	Yellow(Pantone 136C) Chromatic aberration E: ≤4.0
	Min. sheath thickness	0.3mm
	Dimension	2.0mm±0.1mm

Transmission Performance

Attenuation coefficient:	Wavelength 1310nm~1625nm	≤0.4dB/km
	Maximum at 1383nm±3nm	≤0.4dB/km
	Wavelength 1550nm	≤0.3dB/km

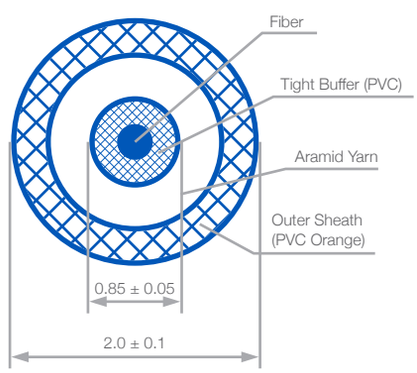
Macrobending loss:	Radius(mm)	15	10	7.5
	Number of turns	10	1	1
	Max. at 1550nm(dB)	0.03	0.1	0.5
	Max. at 1625nm(dB)	0.1	0.2	1.0

Other performances

Min. bending radius of work	10mm
Other parameter meet standard	IEC60794-2-50, YD/T1258.2, ITU-T G.657

Fiber Specification - SECTION OMI

Item	Detail	Specification
Fiber type	/	62.5/125(A1b) (OM1)
Core diameter	Dimension	62.5μm±3μm
Cladding diameter	Dimension	125.0μm±2μm
Core-cladding concentricity error		≤3μm
Cladding non-circularity		≤2%
Core non-circularity		≤6%
Primary coating diameter (uncoloured)	Dimension	245μm±10μm
Primary coating-cladding		≤12.5μm
Concentricity error	Radius(mm)	37.5
Uncabled fiber macrobending loss	Number of turns	100
	At wavelengths 850nm and 1300nm(dB)	0.5
Min. proof stress		0.69GPa
Dynamic fatigue parameter		≥20
Minimum modal bandwidth- length	Wavelength 850nm	200MHzkm
Product for overfilled launch	Wavelength 1300nm	500MHzkm
Other parameters meet standard	IEC 60793-2-10	

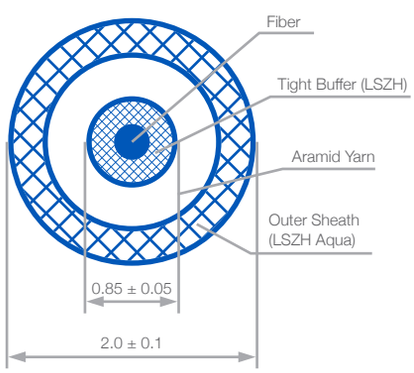


Optical Cable Specification

Item		Specification
Structure Parameter		
Tight buffer	Material	Polyolefin (POE)
	Outer diameter	0.85mm±0.05mm
Strength member	Material	Aramid yarn
Outer sheath	Sheath material	Polyolefin (POE)
	Sheath color	Orange(Pantone 164C) Chromatic aberration E: ≤4.0
	Min. sheath thickness	0.3mm
	Dimension	2.0mm±0.1mm
Transmission Performance		
Attenuation coefficient	Wavelength 850m	≤3.5dB/km
	Wavelength 1300nm	≤1.5dB/km
Other performances		
Min. bending radius of work		30mm
Other parameter meet standard		IEC60794-2-50, YD/T1258.2

Fiber Specification - SECTION OM3

Item	Detail	Specification
Fiber type	/	50/125(OM3)
Core diameter	Dimension	50μm±2.5μm
Cladding diameter	Dimension	125.0μm±2μm
Core-cladding concentricity error		≤3μm
Cladding non-circularity		≤2%
Core non-circularity		≤6%
Primary coating diameter (uncoloured)	Dimension	245μm±10μm
Primary coating-cladding		≤12.5μm
concentricity error	Radius(mm)	15 7.5
Uncabled fiber macrobending loss	Number of turns	2 2
	Max. at 850nm(dB)	0.1 0.2
	Max. at 1300nm(dB)	0.3 0.5
Min. mode bandwidth	Overfilled launch bandwidth at 850nm	1500 MHz. km
	Overfilled launch bandwidth at 1300nm	500 MHz. km
	Effective laser launch bandwidth at 850nm	2000 MHz. km
Min. proof stress		0.69GPa
Dynamic fatigue parameter		≤20
Chromatic dispersion coefficient	λ0min	1295nm
	λ0max	1340nm
	S0max(from1295nm≤λ0≤1310nm)	0.105ps/nm^2×km
	S0max(from1310nm≤λ0≤1340nm)	0.000375(1590-λ_0) ps/nm^2×km
Other parameters meet standard	IEC 60793-2-10	



Optical Cable Specification

Item		Specification
Structure Parameter		
Tight buffer	Material	Polyolefin (POE)
	Outer diameter	0.85mm±0.05mm
Strength member	Material	Aramid yarn
Outer sheath	Sheath material	Polyolefin (POE)
	Sheath color	Aqua(Pantone 3248C) Chromatic aberration E: ≤4.0
	Min. sheath thickness	0.3mm
	Dimension	2.0mm±0.1mm
Transmission Performance		
Attenuation coefficient	Wavelength 850m	≤3.5dB/km
	Wavelength 1300nm	≤1.5dB/km
Macrobending loss	Radius (mm)	15 7.5
	Number of turns	2 2
	Max. at 850 nm (dB)	0.1 0.2
	Max. at 1300 nm (dB)	0.3 0.5
Other performances		
Min. bending radius of work		10mm
Other parameter meet standard		IEC60794-2-50, YD/T1258.2

PXF605 X	/ X	/ XX

Body Styles

PXF6050
PXF6051
PXF6052
PXF6054
PXF6055

For Cable Type

A = OM3 (Multimode)
B = OM1 (Multimode)
C = OS1 (Single Mode)

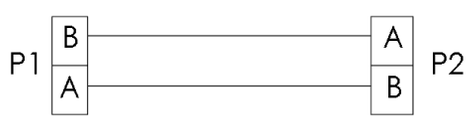
Cable Length

Blank = No cable
AA = 1 (1m on chassis version only PXF6052)
AA = 5
AB = 10
AC = 15
AD = 25
AE =50
AF = 100
AG = 150
AH = 200
AJ = 300
AK = 450

Examples:

PXF6050A = Flex connector, for OM3 (Multimode) no cable supplied
PXF6050AAA = Flex connector, OM3 multimode cable, 5 metre length to LC type connector
PXF6052BAA = Panel mount connector, OM1 multi mode cable, 1 metre length to LC type connector

Fiber Assignment:



The 5000 Series Expanded Beam Connector range provides a high performance and a simple termination process. This allows for a rapid in-field termination and repair where inserts and termination kits are available. Moreover, the newly designed cable management system prevents fibers and cable to be twisted and their corresponding performance loss.



Key Features:

- Designed to MIL-DTL-83526D
- Compatible with any Connector that follows MIL-DTL-83526D
- Max Insertion Loss <2dB
  Typical Insertion Loss <1.5dB
- Rated to IP68
- Operating Temperature -50oC to +80oC (With Outdoor Tactical Cable)
- Available with 2 and 4 Channels
- Available with OM1 and OM3 Fiber Types
- Cable range from 1 to 450m
- Plug, Jam Nut, and Flange Mount Connector Body Options
- Plug to Plug, Plug to LC, and Plug to SC Cable Assembly Options Available
- Secure, proven locking system
- All plastic body version; UL94-V0 rated, UV stable, halogen free Light-weight, self-extinguishing material suitable for long-term outdoor and defence use.

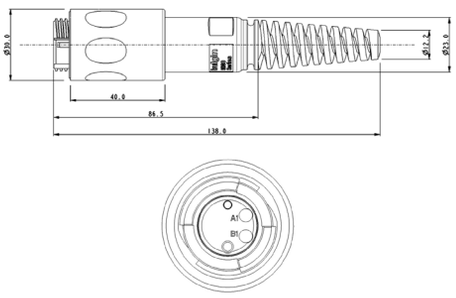
5000 Series - Expanded Beam

2 Channel Plug Connector



PXEB5200MM4045

- Non-terminated Connector for a 2-Channel Cable
- Compatible with OM1 & OM3
- Dust Cap, Lanyard, & Ferrules (termini) for the Cable Included
- Mates with Plug, Jam Nut, & Flange Mount Connectors (hermaphroditic)
- 4.0mm – 6.0mm Cable Acceptance
- Available in 4 Channels
- Cable Assembly Available



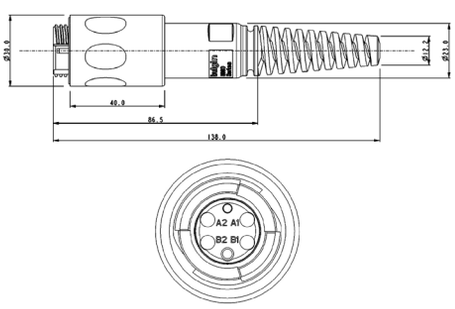
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Acceptance
PXEB5200MM4045	2	Multimode	OM1 & OM3	4.0mm – 4.5mm
PXEB5200MM4550	2	Multimode	OM1 & OM3	4.5mm – 5.0mm
PXEB5200MM5055	2	Multimode	OM1 & OM3	5.0mm – 5.5mm
PXEB5200MM5560	2	Multimode	OM1 & OM3	5.5mm – 6.0mm

4 Channel Plug Connector



PXEB5400MM4045

- Non-terminated Connector for a 4-Channel Cable
- Compatible with OM1 & OM3
- Dust Cap, Lanyard, & Ferrules (termini) for the Cable Included
- Mates with Plug, Jam Nut, & Flange Mount Connectors (hermaphroditic)
- 4.0mm – 6.0mm Cable Acceptance
- Available in 2 Channels
- Cable Assembly Available



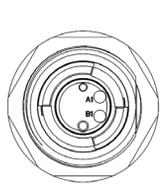
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Acceptance
PXEB5400MM4045	4	Multimode	OM1 & OM3	4.0mm – 4.5mm
PXEB5400MM4550	4	Multimode	OM1 & OM3	4.5mm – 5.0mm
PXEB5400MM5055	4	Multimode	OM1 & OM3	5.0mm – 5.5mm
PXEB5400MM5560	4	Multimode	OM1 & OM3	5.5mm – 6.0mm

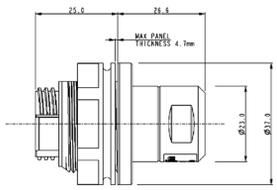
2 Channel Jam Nut Bulkhead Connector



PXEB5210MM

- Non-terminated Connector for 2 patch leads
- Compatible with OM1 & OM3
- Dust Cap, Lanyard, & Ferrules (termini) for the patch leads included
- Mates with Plug Connectors (hermaphroditic)
- Available in 4 Channels
- Cable Assembly Available
- Maximum Panel Thickness – 4.7mm





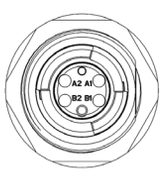
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Acceptance
PXEB5210MM	2	Multimode	OM1 & OM3	N/A

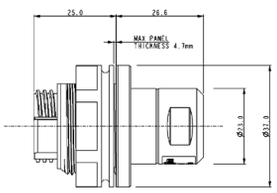
4 Channel Jam Nut Bulkhead Connector



PXEB5410MM

- Non-terminated Connector for 4 patch leads
- Compatible with OM1 & OM3
- Dust Cap, Lanyard, & Ferrules (termini) for the patch leads included
- Mates with Plug Connectors (hermaphroditic)
- Available in 2 Channels
- Cable Assembly Available
- Maximum Panel Thickness – 4.7mm





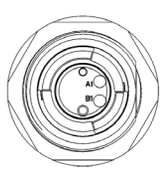
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Acceptance
PXEB5410MM	4	Multimode	OM1 & OM3	N/A

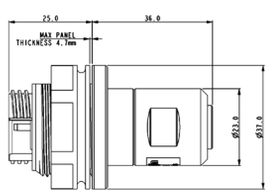
2 Channel Jam Nut Bulkhead Connector with Cable Retention



PXEB5210MM4045

- Non-terminated Connector for a 2-Channel Cable
- Compatible with OM1 & OM3
- Dust Cap, Lanyard, & Ferrules (termini) for the Cable Included
- Mates with Plug Connectors (hermaphroditic)
- Available in 4 Channels
- Maximum Panel Thickness – 4.7mm





Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Acceptance
PXEB5210MM4045	2	Multimode	OM1 & OM3	4.0mm – 4.5mm
PXEB5210MM4550	2	Multimode	OM1 & OM3	4.5mm – 5.0mm
PXEB5210MM5055	2	Multimode	OM1 & OM3	5.0mm – 5.5mm
PXEB5210MM5560	2	Multimode	OM1 & OM3	5.5mm – 6.0mm

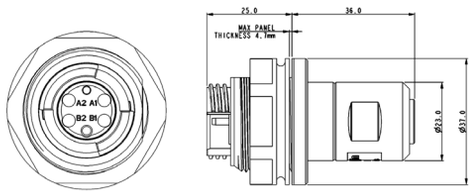
5000 Series - Expanded Beam

4 Channel Jam Nut Bulkhead Connector with Cable Retention



PXEB5410MM4550

- Non-terminated Connector for a 4-Channel Cable
- Compatible with OM1 & OM3
- Dust Cap, Lanyard, & Ferrules (termini) for the Cable Included
- Mates with Plug Connectors (hermaphroditic)
- Available in 2 Channels
- Maximum Panel Thickness – 4.7mm



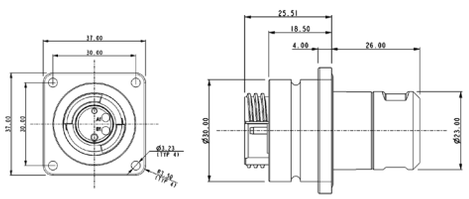
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Acceptance
PXEB5410MM4045	4	Multimode	OM1 & OM3	4.0mm – 4.5mm
PXEB5410MM4550	4	Multimode	OM1 & OM3	4.5mm – 5.0mm
PXEB5410MM5055	4	Multimode	OM1 & OM3	5.0mm – 5.5mm
PXEB5410MM5560	4	Multimode	OM1 & OM3	5.5mm – 6.0mm

2 Channel Flange Mount Bulkhead Connector



PXEB5220MM

- Non-terminated Connector for 2 patch leads
- Compatible with OM1 & OM3
- Dust Cap, Lanyard, & Ferrules (termini) for the patch leads included
- Mates with Plug Connectors (hermaphroditic)
- Available in 4 Channels



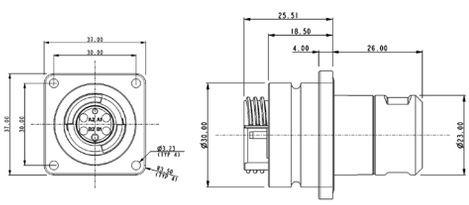
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Acceptance
PXEB5220MM	2	Multimode	OM1 & OM3	N/A

4 Channel Flange Mount Bulkhead Connector



PXEB5420MM

- Non-terminated Connector for 4 patch leads
- Compatible with OM1 & OM3
- Dust Cap, Lanyard, & Ferrules (termini) for the patch leads included
- Mates with Plug Connectors (hermaphroditic)
- Available in 2 Channels



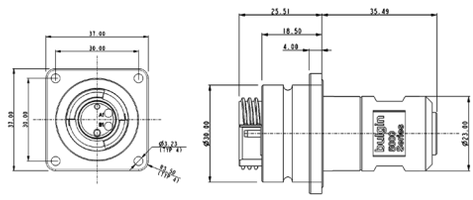
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Acceptance
PXEB5420MM	4	Multimode	OM1 & OM3	N/A

2 Channel Flange Mount Bulkhead Connector with Cable Retention



PXEB5220MM4045

- Non-terminated Connector for a 2-Channel Cable
- Compatible with OM1 & OM3
- Dust Cap, Lanyard, & Ferrules (termini) for the Cable Included
- Mates with Plug Connectors (hermaphroditic)
- Available in 4 Channels



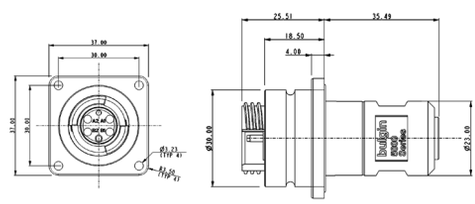
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Acceptance
PXEB5220MM4045	2	Multimode	OM1 & OM3	4.0mm – 4.5mm
PXEB5220MM4550	2	Multimode	OM1 & OM3	4.5mm – 5.0mm
PXEB5220MM5055	2	Multimode	OM1 & OM3	5.0mm – 5.5mm
PXEB5220MM5560	2	Multimode	OM1 & OM3	5.5mm – 6.0mm

4 Channel Flange Mount Bulkhead Connector with Cable Retention



PXEB5420MM4550

- Non-terminated Connector for a 4-Channel Cable
- Compatible with OM1 & OM3
- Dust Cap, Lanyard, & Ferrules (termini) for the Cable Included
- Mates with Plug Connectors (hermaphroditic)
- Available in 2 Channels



Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Acceptance
PXEB5420MM4045	4	Multimode	OM1 & OM3	4.0mm – 4.5mm
PXEB5420MM4550	4	Multimode	OM1 & OM3	4.5mm – 5.0mm
PXEB5420MM5055	4	Multimode	OM1 & OM3	5.0mm – 5.5mm
PXEB5420MM5560	4	Multimode	OM1 & OM3	5.5mm – 6.0mm

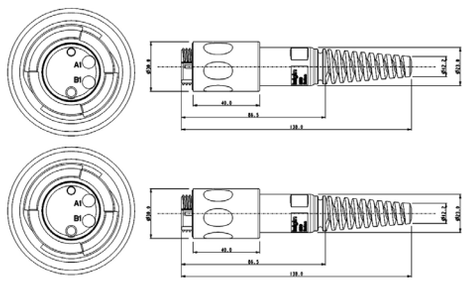
5000 Series - Expanded Beam

2 Channel Plug to Plug Connector
Cable Assembly



PXEB5201B005

- Two-terminated Plug Connectors with a 2-Channel Outdoor Tactical Cable
- OM1 or OM3 Fiber Type Options
- 5 – 450m Cable Length Options
- Dust Cap & Lanyard included for each Connector
- Mates with Plug, Jam Nut, & Flange Mount Connectors (hermaphroditic)
- Available in 4 Channels
- Available in Plug to LC & Plug to SC Cable Assembly



Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Length	Termination
PXEB5201B005	2	Multimode	OM1	5m	Plug to Plug
PXEB5201C005	2	Multimode	OM3	5m	Plug to Plug
PXEB5201B010	2	Multimode	OM1	10m	Plug to Plug
PXEB5201C010	2	Multimode	OM3	10m	Plug to Plug
PXEB5201B015	2	Multimode	OM1	15m	Plug to Plug
PXEB5201C015	2	Multimode	OM3	15m	Plug to Plug
PXEB5201B025	2	Multimode	OM1	25m	Plug to Plug
PXEB5201C025	2	Multimode	OM3	25m	Plug to Plug
PXEB5201B050	2	Multimode	OM1	50m	Plug to Plug
PXEB5201C050	2	Multimode	OM3	50m	Plug to Plug
PXEB5201B100	2	Multimode	OM1	100m	Plug to Plug
PXEB5201C100	2	Multimode	OM3	100m	Plug to Plug
PXEB5201B200	2	Multimode	OM1	200m	Plug to Plug
PXEB5201C200	2	Multimode	OM3	200m	Plug to Plug
PXEB5201B300	2	Multimode	OM1	300m	Plug to Plug
PXEB5201C300	2	Multimode	OM3	300m	Plug to Plug
PXEB5201B450	2	Multimode	OM1	450m	Plug to Plug
PXEB5201C450	2	Multimode	OM3	450m	Plug to Plug

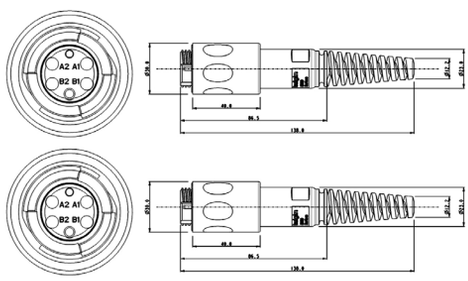
5000 Series - Expanded Beam

4 Channel Plug to Plug Connector Cable Assembly



PXEB5401B005

- Two-terminated Plug Connectors with a 4-Channel Outdoor Tactical Cable
- OM1 or OM3 Fiber Type Options
- 5 – 450m Cable Length Options
- Dust Cap & Lanyard included for each Connector
- Mates with Plug, Jam Nut, & Flange Mount Connectors (hermaphroditic)
- Available in 2 Channels
- Available in Plug to LC & Plug to SC Cable Assembly



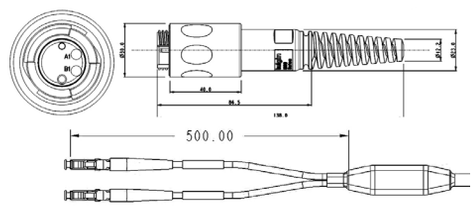
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Length	Termination
PXEB5401B005	4	Multimode	OM1	5m	Plug to Plug
PXEB5401C005	4	Multimode	OM3	5m	Plug to Plug
PXEB5401B010	4	Multimode	OM1	10m	Plug to Plug
PXEB5401C010	4	Multimode	OM3	10m	Plug to Plug
PXEB5401B015	4	Multimode	OM1	15m	Plug to Plug
PXEB5401C015	4	Multimode	OM3	15m	Plug to Plug
PXEB5401B025	4	Multimode	OM1	25m	Plug to Plug
PXEB5401C025	4	Multimode	OM3	25m	Plug to Plug
PXEB5401B050	4	Multimode	OM1	50m	Plug to Plug
PXEB5401C050	4	Multimode	OM3	50m	Plug to Plug
PXEB5401B100	4	Multimode	OM1	100m	Plug to Plug
PXEB5401C100	4	Multimode	OM3	100m	Plug to Plug
PXEB5401B200	4	Multimode	OM1	200m	Plug to Plug
PXEB5401C200	4	Multimode	OM3	200m	Plug to Plug
PXEB5401B300	4	Multimode	OM1	300m	Plug to Plug
PXEB5401C300	4	Multimode	OM3	300m	Plug to Plug
PXEB5401B450	4	Multimode	OM1	450m	Plug to Plug
PXEB5401C450	4	Multimode	OM3	450m	Plug to Plug

2 Channel Plug to LC Connector
Cable Assembly



PXEB5202B005

- A Terminated Plug Connector with a 2-Channel Outdoor Tactical Cable that breaks out in 2 independent cables (0.5m long) with LC Terminations
- OM1 or OM3 Fiber Type Options
- 5 – 450m Cable Length Options
- Dust Caps for all Connectors & Plug Lanyard included
- Mates with Plug, Jam Nut, & Flange Mount Connectors (hermaphroditic)
- Available in 4 Channels
- Available in Plug to Plug & Plug to SC Cable Assembly



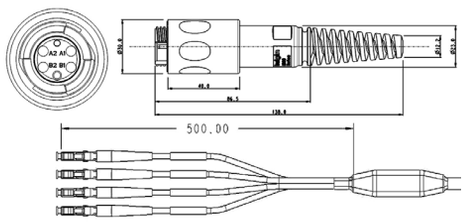
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Length	Termination
PXEB5202B005	2	Multimode	OM1	5m	Plug to LC
PXEB5202C005	2	Multimode	OM3	5m	Plug to LC
PXEB5202B010	2	Multimode	OM1	10m	Plug to LC
PXEB5202C010	2	Multimode	OM3	10m	Plug to LC
PXEB5202B015	2	Multimode	OM1	15m	Plug to LC
PXEB5202C015	2	Multimode	OM3	15m	Plug to LC
PXEB5202B025	2	Multimode	OM1	25m	Plug to LC
PXEB5202C025	2	Multimode	OM3	25m	Plug to LC
PXEB5202B050	2	Multimode	OM1	50m	Plug to LC
PXEB5202C050	2	Multimode	OM3	50m	Plug to LC
PXEB5202B100	2	Multimode	OM1	100m	Plug to LC
PXEB5202C100	2	Multimode	OM3	100m	Plug to LC
PXEB5202B200	2	Multimode	OM1	200m	Plug to LC
PXEB5202C200	2	Multimode	OM3	200m	Plug to LC
PXEB5202B300	2	Multimode	OM1	300m	Plug to LC
PXEB5202C300	2	Multimode	OM3	300m	Plug to LC
PXEB5202B450	2	Multimode	OM1	450m	Plug to LC
PXEB5202C450	2	Multimode	OM3	450m	Plug to LC

4 Channel Plug to LC Connector
Cable Assembly



PXEB5402B005

- A Terminated Plug Connector with a 4-Channel Outdoor Tactical Cable that breaks out in 4 independent cables (0.5m long) with LC Terminations
- OM1 or OM3 Fiber Type Options
- 5 – 450m Cable Length Options
- Dust Caps for all Connectors & Plug Lanyard included
- Mates with Plug, Jam Nut, & Flange Mount Connectors (hermaphroditic)
- Available in 2 Channels
- Available in Plug to Plug & Plug to SC Cable Assembly



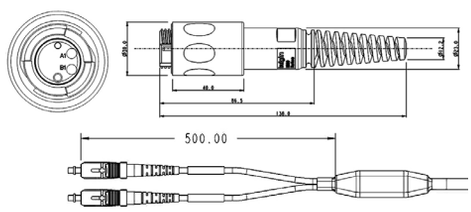
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Length	Termination
PXEB5402B005	4	Multimode	OM1	5m	Plug to LC
PXEB5402C005	4	Multimode	OM3	5m	Plug to LC
PXEB5402B010	4	Multimode	OM1	10m	Plug to LC
PXEB5402C010	4	Multimode	OM3	10m	Plug to LC
PXEB5402B015	4	Multimode	OM1	15m	Plug to LC
PXEB5402C015	4	Multimode	OM3	15m	Plug to LC
PXEB5402B025	4	Multimode	OM1	25m	Plug to LC
PXEB5402C025	4	Multimode	OM3	25m	Plug to LC
PXEB5402B050	4	Multimode	OM1	50m	Plug to LC
PXEB5402C050	4	Multimode	OM3	50m	Plug to LC
PXEB5402B100	4	Multimode	OM1	100m	Plug to LC
PXEB5402C100	4	Multimode	OM3	100m	Plug to LC
PXEB5402B200	4	Multimode	OM1	200m	Plug to LC
PXEB5402C200	4	Multimode	OM3	200m	Plug to LC
PXEB5402B300	4	Multimode	OM1	300m	Plug to LC
PXEB5402C300	4	Multimode	OM3	300m	Plug to LC
PXEB5402B450	4	Multimode	OM1	450m	Plug to LC
PXEB5402C450	4	Multimode	OM3	450m	Plug to LC

2 Channel Plug to SC Connector
Cable Assembly



PXEB5203B005

- A Terminated Plug Connector with a 2-Channel Outdoor Tactical Cable that breaks out in 2 independent cables (0.5m long) with SC Terminations
- OM1 or OM3 Fiber Type Options
- 5 – 450m Cable Length Options
- Dust Caps for all Connectors & Plug Lanyard included
- Mates with Plug, Jam Nut, & Flange Mount Connectors (hermaphroditic)
- Available in 4 Channels
- Available in Plug to Plug & Plug to LC Cable Assembly



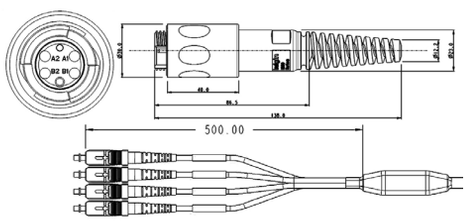
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Length	Termination
PXEB5203B005	2	Multimode	OM1	5m	Plug to SC
PXEB5203C005	2	Multimode	OM3	5m	Plug to SC
PXEB5203B010	2	Multimode	OM1	10m	Plug to SC
PXEB5203C010	2	Multimode	OM3	10m	Plug to SC
PXEB5203B015	2	Multimode	OM1	15m	Plug to SC
PXEB5203C015	2	Multimode	OM3	15m	Plug to SC
PXEB5203B025	2	Multimode	OM1	25m	Plug to SC
PXEB5203C025	2	Multimode	OM3	25m	Plug to SC
PXEB5203B050	2	Multimode	OM1	50m	Plug to SC
PXEB5203C050	2	Multimode	OM3	50m	Plug to SC
PXEB5203B100	2	Multimode	OM1	100m	Plug to SC
PXEB5203C100	2	Multimode	OM3	100m	Plug to SC
PXEB5203B200	2	Multimode	OM1	200m	Plug to SC
PXEB5203C200	2	Multimode	OM3	200m	Plug to SC
PXEB5203B300	2	Multimode	OM1	300m	Plug to SC
PXEB5203C300	2	Multimode	OM3	300m	Plug to SC
PXEB5203B450	2	Multimode	OM1	450m	Plug to SC
PXEB5203C450	2	Multimode	OM3	450m	Plug to SC

4 Channel Plug to SC Connector
Cable Assembly



PXEB5403B005

- A Terminated Plug Connector with a 4-Channel Outdoor Tactical Cable that breaks out in 4 independent cables (0.5m long) with SC Terminations
- OM1 or OM3 Fiber Type Options
- 5 – 450m Cable Length Options
- Dust Caps for all Connectors & Plug Lanyard included
- Mates with Plug, Jam Nut, & Flange Mount Connectors (hermaphroditic)
- Available in 2 Channels
- Available in Plug to Plug & Plug to LC Cable Assembly



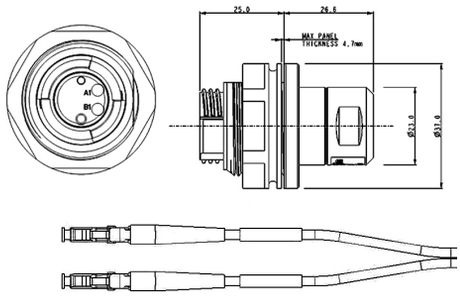
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Length	Termination
PXEB5403B005	4	Multimode	OM1	5m	Plug to SC
PXEB5403C005	4	Multimode	OM3	5m	Plug to SC
PXEB5403B010	4	Multimode	OM1	10m	Plug to SC
PXEB5403C010	4	Multimode	OM3	10m	Plug to SC
PXEB5403B015	4	Multimode	OM1	15m	Plug to SC
PXEB5403C015	4	Multimode	OM3	15m	Plug to SC
PXEB5403B025	4	Multimode	OM1	25m	Plug to SC
PXEB5403C025	4	Multimode	OM3	25m	Plug to SC
PXEB5403B050	4	Multimode	OM1	50m	Plug to SC
PXEB5403C050	4	Multimode	OM3	50m	Plug to SC
PXEB5403B100	4	Multimode	OM1	100m	Plug to SC
PXEB5403C100	4	Multimode	OM3	100m	Plug to SC
PXEB5403B200	4	Multimode	OM1	200m	Plug to SC
PXEB5403C200	4	Multimode	OM3	200m	Plug to SC
PXEB5403B300	4	Multimode	OM1	300m	Plug to SC
PXEB5403C300	4	Multimode	OM3	300m	Plug to SC
PXEB5403B450	4	Multimode	OM1	450m	Plug to SC
PXEB5403C450	4	Multimode	OM3	450m	Plug to SC

2 Channel Jam Nut to LC Connector Cable Assembly



PXEB5212B001

- A Terminated Jam Nut Bulkhead (JNBH) Connector with 2 LC terminated independent cables
- OM1 or OM3 Fiber Type Options
- 1, 2 & 5m Cable Length Options
- Dust Caps for all Connectors & Jam Nut Lanyard included
- Mates with Plug Connectors (hermaphroditic)
- Maximum Panel Thickness – 4.7mm
- Available in 4 Channels
- Available in Jam Nut to SC Cable Assembly



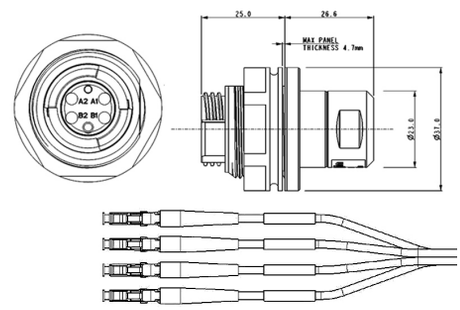
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Length	Termination
PXEB5212B001	2	Multimode	OM1	1m	JNBH to LC
PXEB5212C001	2	Multimode	OM3	1m	JNBH to LC
PXEB5212B002	2	Multimode	OM1	2m	JNBH to LC
PXEB5212C002	2	Multimode	OM3	2m	JNBH to LC
PXEB5212B005	2	Multimode	OM1	5m	JNBH to LC
PXEB5212C005	2	Multimode	OM3	5m	JNBH to LC

4 Channel Jam Nut to LC Connector Cable Assembly



PXEB5412B001

- A Terminated Jam Nut Bulkhead (JNBH) Connector with 4 LC terminated independent cables
- OM1 or OM3 Fiber Type Options
- 1, 2 & 5m Cable Length Options
- Dust Caps for all Connectors & Jam Nut Lanyard included
- Mates with Plug Connectors (hermaphroditic)
- Maximum Panel Thickness – 4.7mm
- Available in 2 Channels
- Available in Jam Nut to SC Cable Assembly



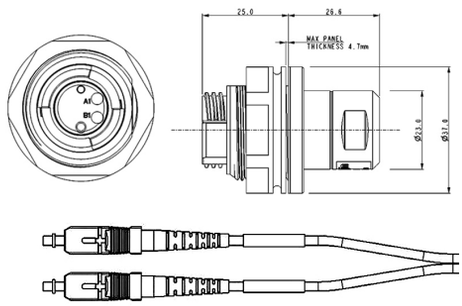
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Length	Termination
PXEB5412B001	4	Multimode	OM1	1m	JNBH to LC
PXEB5412C001	4	Multimode	OM3	1m	JNBH to LC
PXEB5412B002	4	Multimode	OM1	2m	JNBH to LC
PXEB5412C002	4	Multimode	OM3	2m	JNBH to LC
PXEB5412B005	4	Multimode	OM1	5m	JNBH to LC
PXEB5412C005	4	Multimode	OM3	5m	JNBH to LC

2 Channel Jam Nut to SC Connector Cable Assembly



PXEB5213B001

- A Terminated Jam Nut Bulkhead (JNBH) Connector with 2 SC terminated independent cables
- OM1 or OM3 Fiber Type Options
- 1, 2 & 5m Cable Length Options
- Dust Caps for all Connectors & Jam Nut Lanyard included
- Mates with Plug Connectors (hermaphroditic)
- Maximum Panel Thickness – 4.7mm
- Available in 4 Channels
- Available in Jam Nut to LC Cable Assembly



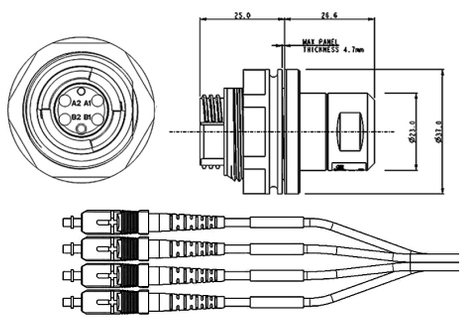
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Length	Termination
PXEB5213B001	2	Multimode	OM1	1m	JNBH to SC
PXEB5213C001	2	Multimode	OM3	1m	JNBH to SC
PXEB5213B002	2	Multimode	OM1	2m	JNBH to SC
PXEB5213C002	2	Multimode	OM3	2m	JNBH to SC
PXEB5213B005	2	Multimode	OM1	5m	JNBH to SC
PXEB5213C005	2	Multimode	OM3	5m	JNBH to SC

4 Channel Jam Nut to SC Connector Cable Assembly



PXEB5413B001

- A Terminated Jam Nut Bulkhead (JNBH) Connector with 4 SC terminated independent cables
- OM1 or OM3 Fiber Type Options
- 1, 2 & 5m Cable Length Options
- Dust Caps for all Connectors & Jam Nut Lanyard included
- Mates with Plug Connectors (hermaphroditic)
- Maximum Panel Thickness – 4.7mm
- Available in 2 Channels
- Available in Jam Nut to LC Cable Assembly



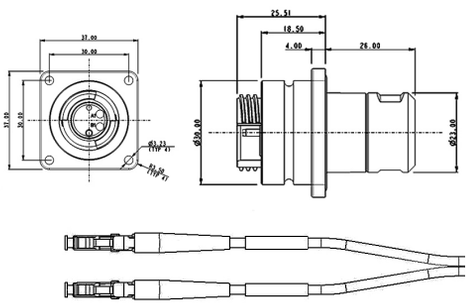
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Length	Termination
PXEB5413B001	4	Multimode	OM1	1m	JNBH to SC
PXEB5413C001	4	Multimode	OM3	1m	JNBH to SC
PXEB5413B002	4	Multimode	OM1	2m	JNBH to SC
PXEB5413C002	4	Multimode	OM3	2m	JNBH to SC
PXEB5413B005	4	Multimode	OM1	5m	JNBH to SC
PXEB5413C005	4	Multimode	OM3	5m	JNBH to SC

2 Channel Flange Mount to LC Connector Cable Assembly



PXEB5222B001

- A Terminated Flange Mount Bulkhead (FMBH) Connector with 2 LC terminated independent cables
- OM1 or OM3 Fiber Type Options
- 1, 2 & 5m Cable Length Options
- Dust Caps for all Connectors & Flange Mount Lanyard included
- Mates with Plug Connectors (hermaphroditic)
- Available in 4 Channels
- Available in Jam Nut to SC Cable Assembly



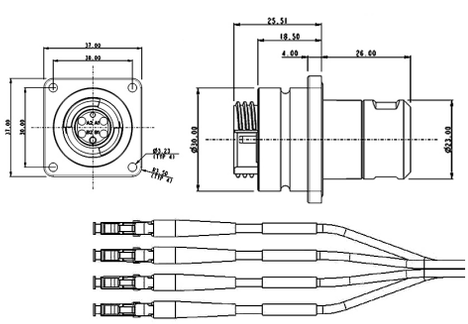
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Length	Termination
PXEB5222B001	2	Multimode	OM1	1m	FMBH to LC
PXEB5222C001	2	Multimode	OM3	1m	FMBH to LC
PXEB5222B002	2	Multimode	OM1	2m	FMBH to LC
PXEB5222C002	2	Multimode	OM3	2m	FMBH to LC
PXEB5222B005	2	Multimode	OM1	5m	FMBH to LC
PXEB5222C005	2	Multimode	OM3	5m	FMBH to LC

4 Channel Flange Mount to LC Connector Cable Assembly



PXEB5422B001

- A Terminated Flange Mount Bulkhead (FMBH) Connector with 4 LC terminated independent cables
- OM1 or OM3 Fiber Type Options
- 1, 2 & 5m Cable Length Options
- Dust Caps for all Connectors & Flange Mount Lanyard included
- Mates with Plug Connectors (hermaphroditic)
- Available in 2 Channels
- Available in Jam Nut to SC Cable Assembly



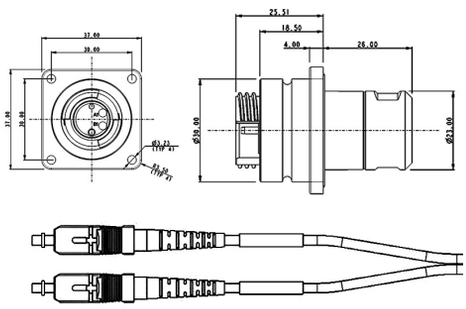
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Length	Termination
PXEB5422B001	4	Multimode	OM1	1m	FMBH to LC
PXEB5422C001	4	Multimode	OM3	1m	FMBH to LC
PXEB5422B002	4	Multimode	OM1	2m	FMBH to LC
PXEB5422C002	4	Multimode	OM3	2m	FMBH to LC
PXEB5422B005	4	Multimode	OM1	5m	FMBH to LC
PXEB5422C005	4	Multimode	OM3	5m	FMBH to LC

2 Channel Flange Mount to SC Connector Cable Assembly



PXEB5223B001

- A Terminated Flange Mount Bulkhead (FMBH) Connector with 2 SC terminated independent cables
- OM1 or OM3 Fiber Type Options
- 1, 2 & 5m Cable Length Options
- Dust Caps for all Connectors & Flange Mount Lanyard included
- Mates with Plug Connectors (hermaphroditic)
- Available in 4 Channels
- Available in Jam Nut to LC Cable Assembly



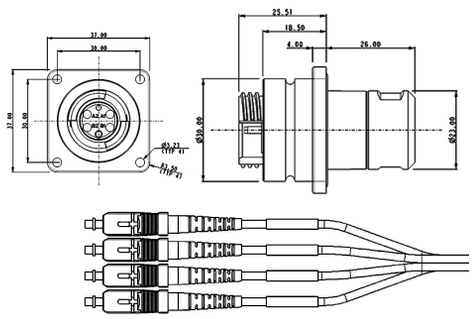
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Length	Termination
PXEB5223B001	2	Multimode	OM1	1m	FMBH to SC
PXEB5223C001	2	Multimode	OM3	1m	FMBH to SC
PXEB5223B002	2	Multimode	OM1	2m	FMBH to SC
PXEB5223C002	2	Multimode	OM3	2m	FMBH to SC
PXEB5223B005	2	Multimode	OM1	5m	FMBH to SC
PXEB5223C005	2	Multimode	OM3	5m	FMBH to SC

4 Channel Flange Mount to SC Connector Cable Assembly



PXEB5423B001

- A Terminated Flange Mount Bulkhead (FMBH) Connector with 4 SC terminated independent cables
- OM1 or OM3 Fiber Type Options
- 1, 2 & 5m Cable Length Options
- Dust Caps for all Connectors & Flange Mount Lanyard included
- Mates with Plug Connectors (hermaphroditic)
- Available in 2 Channels
- Available in Jam Nut to LC Cable Assembly



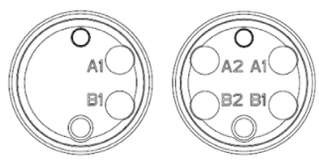
Part Number	Channels	Multimode / Singlemode	Fiber Type	Cable Length	Termination
PXEB5423B001	4	Multimode	OM1	1m	FMBH to SC
PXEB5423C001	4	Multimode	OM3	1m	FMBH to SC
PXEB5423B002	4	Multimode	OM1	2m	FMBH to SC
PXEB5423C002	4	Multimode	OM3	2m	FMBH to SC
PXEB5423B005	4	Multimode	OM1	5m	FMBH to SC
PXEB5423C005	4	Multimode	OM3	5m	FMBH to SC

Channel Inserts



PXEB5280

- Allows Plug, Jam Nut & Flange Mount to be re-terminated with 2 or 4 Channel Insert



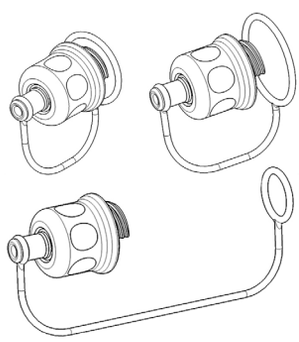
Part No	Description
PXEB5280	2 Channel Expanded Beam Insert Assembly
PXEB5480	4 Channel Expanded Beam Insert Assembly

Dust Caps



PXEB5080

- Dust Caps do not have an effect on IP68 rating as Plug, Jam Nut & Flange Mount Bulkhead are sealed without the Dust Cap
- Lanyard Included
- Different Lanyard for different Connectors but same Dust Cap



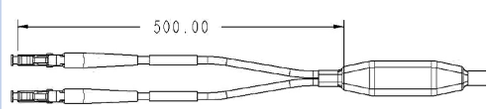
Part No	Description
PXEB5080	Dust Cap for Plug
PXEB5081	Dust Cap for Jam Nut Bulkhead
PXEB5082	Dust Cap for Flange Mount Bulkhead

LC & SC Termination Kit



PXEB5088

- Kit to terminate Plug & Jam Nut with Cable Acceptance Connector
- The kit includes: breakout tube parts, heat shrink cover, 500mm furcation tubes, & LC or SC Connectors
- Beige - OM1
- Aqua - OM3



Part No	Cable Diameter	Description
PXEB5084	4-5mm	2 Channel Termination Kit (4-5mm) with LC (OM1)
PXEB5085	4-5mm	4 Channel Termination Kit (4-5mm) with LC (OM1)
PXEB5086	4-5mm	2 Channel Termination Kit (4-5mm) with SC (OM1)
PXEB5087	4-5mm	4 Channel Termination Kit (4-5mm) with SC (OM1)
PXEB5088	4-5mm	2 Channel Termination Kit (4-5mm) with LC (OM3)
PXEB5089	4-5mm	4 Channel Termination Kit (4-5mm) with LC (OM3)
PXEB5090	4-5mm	2 Channel Termination Kit (4-5mm) with SC (OM3)
PXEB5091	4-5mm	4 Channel Termination Kit (4-5mm) with SC (OM3)
PXEB5092	5-6mm	2 Channel Termination Kit (5-6mm) with LC (OM1)
PXEB5093	5-6mm	4 Channel Termination Kit (5-6mm) with LC (OM1)
PXEB5094	5-6mm	2 Channel Termination Kit (5-6mm) with SC (OM1)
PXEB5095	5-6mm	4 Channel Termination Kit (5-6mm) with SC (OM1)
PXEB5096	5-6mm	2 Channel Termination Kit (5-6mm) with LC (OM3)
PXEB5097	5-6mm	4 Channel Termination Kit (5-6mm) with LC (OM3)
PXEB5098	5-6mm	2 Channel Termination Kit (5-6mm) with SC (OM3)
PXEB5099	5-6mm	4 Channel Termination Kit (5-6mm) with SC (OM3)

Fiber Cable Crimp Tool



PXEB5083

- For terminating the Inner & Outer Crimp to the Fiber Cable
- Necessary for fixing the Cable to the Plug, Jam Nut & Flange Mount Bulkhead Connectors
- Die Set included

Part No	Description
PXEB5083	Cable Crimp Tool for Plug, Jam Nut & Flange Mount Bulkhead Connectors

5000 Series - Expanded Beam

Mechanical:

Sealing:	IP68, EN60529: 1992+ A2:2013 2m for two weeks
Panel Mount Nut:	1,0-1, 1Nm (91lb.in)
Operating temperature:	-50°C to +80°C
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Material:

Body Mouldings:	Polyamide
Flammability Rating:	UL94v-0
UV Resistance:	To EN 500021:1999
O Rings:	Silicone
Panel Sealing O Ring:	Silicone
RoHS	Compliant

Plug Connector Designed to MIL-DTL-83525/20C specifications
Jam Nut Connector Designed to MIL-DTL-83525/21C specifications

Optical:

IEC 61753-1:	
Max Insertion Loss:	<2dB
AVG Insertion Loss:	<1.5dB

Note: Performance is even better when using matching gel

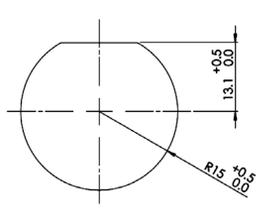
2 Channel Termination Table:

P1 Connector Channel:	P2 Connector Channel:
A1	B1
B1	A1

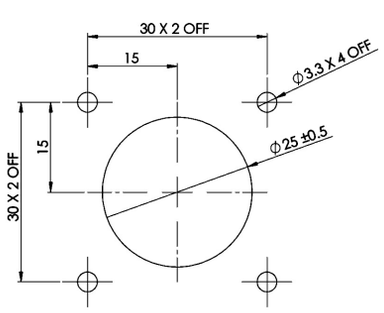
4 Channel Termination Table:

P1 Connector Channel:	P2 Connector Channel:
A1	B1
B1	A1
A2	B2
B2	A2

Jam Nut Bulkhead Panel Mount Cut out:



Flange Mount Bulkhead Panel Mount Cut out:



5000 Series - Expanded Beam

OM1

Item:	Detail:	Specification:
Fiber:	Type	62.5um/125um (OM1)
	Channels	2 or 4
Channel Diameter:	Dimension	62.5um
Cladding Diameter:	Dimension	125um
Buffer:	Construction	Tight
	Material	Nylon
	Diameter	0.9mm
Outer Jacket:	Material	PUR
	Colour	Black
	Outer Diameter	5.4mm (2 Channel) 5.8mm (4 Channel)
	Ripcord	1
Max Attenuation:	at 850nm	3.4dB/km
	at 1300nm	1.2dB/km
Temperature Range:	Operating Temp	-70 °C to +85 °C
	Installation Temp	-5 °C to +50 °C
	Storage Temp	-70 °C to +85 °C
Cable Min. Bend Radius Installation (Short Term)	IEC 60794-1-21-E6	43.2 mm
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	21.6 mm
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	400 N (90 lbf)
Cable Max. Crush Resistance Installation (Short Term)	IEC 60794-1-21-E3	5 kN/m
Cable Max. Crush Resistance Operation (Long Term)	IEC 60794-1-21-E3	3 kN/m
Standards:	UL Rating/Flame Test	Non-UL Rated
	REACH	Compliant
	IEC Compliance	IEC 60794
	EU Directive 2011/65/EU (RoHS 2)	Compliant
	UV/ Sunlight Protection	Yes

5000 Series - Expanded Beam

OM3

Item:	Detail:	Specification:
Fiber:	Type	50um/125um (OM3)
	Count	2 or 4
Channel Diameter:	Dimension	50um
Cladding Diameter:	Dimension	125um
Buffer:	Construction	Tight
	Material	Nylon (2 Channel) Polyamide (4 Channel)
	Diameter	0.9mm
Outer Jacket:	Material	PUR
	Colour	Black
	Outer Diameter	5.4mm (2 Channel) 5.8mm (4 Channel)
	Ripcord	1
Max Attenuation:	at 850nm	2.9dB/ km
	at 1300nm	1.0dB/km
Temperature Range:	Operating Temp	-70 °C to +85 °C (2 Channel) -55 °C to +85 °C (4 Channel)
	Installation Temp	-5 °C to +50 °C (2 Channel) -15 °C to +50 °C (4 Channel)
	Storage Temp	-70 °C to +85 °C (2 Channel) -30 °C to +70 °C (4 Channel)
Cable Min. Bend Radius Installation (Short Term)	IEC 60794-1-21-E6	43.2 mm (2 Channel) 46.4 mm (4 Channel)
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	21.6 mm (2 Channel) 23.2 mm (4 Channel)
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	400 N (90 lbf)
Cable Max. Crush Resistance Installation (Short Term)	IEC 60794-1-21-E3	5 kN/m
Cable Max. Crush Resistance Operation (Long Term)	IEC 60794-1-21-E3	3 kN/m
Standards:	UL Rating/Flame Test	Non-UL Rated
	REACH	Compliant
	IEC Compliance	IEC 60794
	EU Directive 2011/65/EU (RoHS 2)	Compliant
	UV/ Sunlight Protection	Yes

The M-Series Buccaneer range has been designed to offer flexible connectivity solutions for a variety of industrial automation applications. With metal and plastic variants, these rugged and robust interconnects are ideal for industries requiring secure and reliable connections.

- Available types: M5, M8, M12, M16 & M23
- Reliable sensor, actuator and data connectivity solutions
- Straight and right angled configurations
- Quick and secure screw coupling mechanism
- Backwards compatible versions
- Available as field attachable connectors, receptacles or with overmolded cables
- Plastic and Metal Variants
- Ratings from 1A, 30V ac/dc up to 8A, 250V ac/dc
- Overmolded cables PVC & PUR
- IP67 Rating
- Cable lengths from 1m - 15m
- A, B and D Coding Options
- Power Distribution Units Available



M5 Series 202
M8 Series 208
M12 Series 219
M12 X Coding Series 237
M16 Series 245
M23 Series 250
M-Series - Distribution Units 254
Push-Pull Connector X-Series 266
Push-Pull Connector Y-Series 274

Bulgin's M-Series connector range is the ideal connectivity solution for industrial automation technologies that require fast, secure and reliable connections with a high degree of environmental protection.



Bulgin's automation interconnect range includes circular metric connectors with industry standard M5, M8, M12, M16 & M23 threads in addition to panel mount receptacles, overmolded cable variants and power/signal distributor units. This comprehensive product portfolio offers a large degree of flexibility with chemically and mechanically robust connectors that are easy to install, help decrease downtime and increase production efficiency in a wide range of markets.

Applications include:

- Factory Automation
- Robotics
- Measurement & Instrumentation
- Manufacturing & Machine Tools
- Process Control Systems
- Medical
- Food & Beverage Processing
- Industrial Network

The most compact connector type in the M-Series range, Bulgin's waterproof M5 sensor connectors come in straight and angled forms with PVC or PUR overmolded cable options and a variety of panel mount receptacles.



With an industry standard screw coupling mechanism and IP67 rating, this circular connector product line is particularly suited to automotive, process control, commercial electronics & instrumentation applications that require reliable and robust miniature sensors.

Key features:

- Secure & reliable screw locking mechanism
- Robust PVC & PUR overmolded cables
- Cable length from 1m - 15m
- High degree of environmental protection - IP67 rated
- Straight & right angled cable connectors
- Rear & front panel mount receptacles
- Available with 3 or 4 Contacts
- Intermatable with other EN61076-2-105

M5 Series coding options:
(Full Contact Diagrams Page 207)



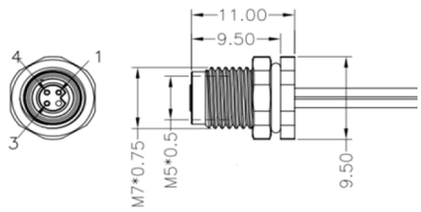
A-Coding

M5 Rear Panel Mounting Female



PXMBNI05RPF

- Available in 3 & 4 Contacts
- PCB or flying lead termination
- Mates with Inline Body connectors



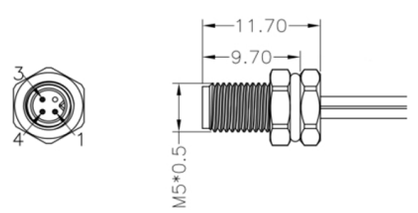
Part Number	Contacts	Code	Termination	Lead Length
PXMBNI05RPF03AFL001	03	A	Flying Lead	100 mm
PXMBNI05RPF03AFL002	03	A	Flying Lead	200 mm
PXMBNI05RPF03AFL003	03	A	Flying Lead	300 mm
PXMBNI05RPF04AFL001	04	A	Flying Lead	100 mm
PXMBNI05RPF04AFL002	04	A	Flying Lead	200 mm
PXMBNI05RPF04AFL003	04	A	Flying Lead	300 mm
PXMBNI05RPF03APC	03	A	PCB Terminal	-
PXMBNI05RPF04APC	04	A	PCB Terminal	-

M5 Rear Panel Mounting Male



PXMBNI05RPM

- Available in 3 & 4 Contacts
- PCB or flying lead termination
- Mates with Flex Body connectors



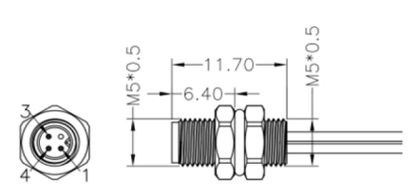
Part Number	Contacts	Code	Termination	Lead Length
PXMBNI05RPM03AFL001	03	A	Flying Lead	100 mm
PXMBNI05RPM03AFL002	03	A	Flying Lead	200 mm
PXMBNI05RPM03AFL003	03	A	Flying Lead	300 mm
PXMBNI05RPM04AFL001	04	A	Flying Lead	100 mm
PXMBNI05RPM04AFL002	04	A	Flying Lead	200 mm
PXMBNI05RPM04AFL003	04	A	Flying Lead	300 mm
PXMBNI05RPM03APC	03	A	PCB Terminal	-
PXMBNI05RPM04APC	04	A	PCB Terminal	-

M5 Front Panel Mounting Male



PXMBNI05FPM

- Available in 3 & 4 Contacts
- PCB or flying lead termination
- Mates with Flex Body connectors



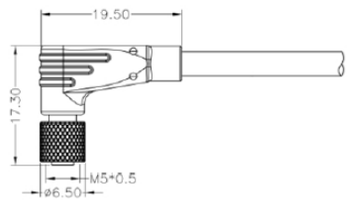
Part Number	Contacts	Code	Termination	Lead Length
PXMBNI05FPM03AFL001	03	A	Flying Lead	100 mm
PXMBNI05FPM03AFL002	03	A	Flying Lead	200 mm
PXMBNI05FPM03AFL003	03	A	Flying Lead	300 mm
PXMBNI05FPM04AFL001	04	A	Flying Lead	100 mm
PXMBNI05FPM04AFL002	04	A	Flying Lead	200 mm
PXMBNI05FPM04AFL003	04	A	Flying Lead	300 mm
PXMBNI05FPM03APC	03	A	PCB Terminal	-
PXMBNI05FPM04APC	04	A	PCB Terminal	-

M5 Right Angled Female



PXPTPU05RAF
PXPPVC05RAF

- Available in 3 & 4 Contacts
- 1,2,3,5,10 & 15m cable options
- Overmold Flex Body
- Mates with Inline Body & panel mount connectors



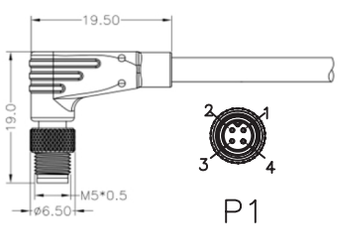
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPPVC05RAF03ACL010PVC	03	A	Overmold Cable	1m	PVC
PXPTPU05RAF03ACL010PUR	03	A	Overmold Cable	1m	PUR
PXPPVC05RAF03ACL020PVC	03	A	Overmold Cable	2m	PVC
PXPTPU05RAF03ACL020PUR	03	A	Overmold Cable	2m	PUR
PXPPVC05RAF03ACL030PVC	03	A	Overmold Cable	3m	PVC
PXPTPU05RAF03ACL030PUR	03	A	Overmold Cable	3m	PUR
PXPPVC05RAF03ACL050PVC	03	A	Overmold Cable	5m	PVC
PXPTPU05RAF03ACL050PUR	03	A	Overmold Cable	5m	PUR
PXPPVC05RAF03ACL100PVC	03	A	Overmold Cable	10m	PVC
PXPTPU05RAF03ACL100PUR	03	A	Overmold Cable	10m	PUR
PXPPVC05RAF03ACL150PVC	03	A	Overmold Cable	15m	PVC
PXPTPU05RAF03ACL150PUR	03	A	Overmold Cable	15m	PUR
PXPPVC05RAF04ACL010PVC	04	A	Overmold Cable	1m	PVC
PXPTPU05RAF04ACL010PUR	04	A	Overmold Cable	1m	PUR
PXPPVC05RAF04ACL020PVC	04	A	Overmold Cable	2m	PVC
PXPTPU05RAF04ACL020PUR	04	A	Overmold Cable	2m	PUR
PXPPVC05RAF04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPTPU05RAF04ACL030PUR	04	A	Overmold Cable	3m	PUR
PXPPVC05RAF04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPTPU05RAF04ACL050PUR	04	A	Overmold Cable	5m	PUR
PXPPVC05RAF04ACL100PVC	04	A	Overmold Cable	10m	PVC
PXPTPU05RAF04ACL100PUR	04	A	Overmold Cable	10m	PUR
PXPPVC05RAF04ACL150PVC	04	A	Overmold Cable	15m	PVC
PXPTPU05RAF04ACL150PUR	04	A	Overmold Cable	15m	PUR

M5 Right Angled Male



PXPTPU05RAM
PXPPVC05RAM

- Available in 3 & 4 Contacts
- 1,2,3,5,10 & 15m cable options
- Overmold Inline Body
- Mates with Flex Body & panel mount connectors



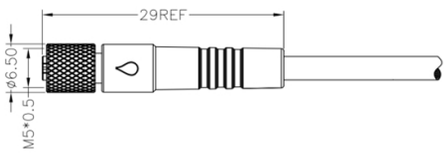
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPPVC05RAM03ACL010PVC	03	A	Overmold Cable	1m	PVC
PXPTPU05RAM03ACL010PUR	03	A	Overmold Cable	1m	PUR
PXPPVC05RAM03ACL020PVC	03	A	Overmold Cable	2m	PVC
PXPTPU05RAM03ACL020PUR	03	A	Overmold Cable	2m	PUR
PXPPVC05RAM03ACL030PVC	03	A	Overmold Cable	3m	PVC
PXPTPU05RAM03ACL030PUR	03	A	Overmold Cable	3m	PUR
PXPPVC05RAM03ACL050PVC	03	A	Overmold Cable	5m	PVC
PXPTPU05RAM03ACL050PUR	03	A	Overmold Cable	5m	PUR
PXPPVC05RAM03ACL100PVC	03	A	Overmold Cable	10m	PVC
PXPTPU05RAM03ACL100PUR	03	A	Overmold Cable	10m	PUR
PXPPVC05RAM03ACL150PVC	03	A	Overmold Cable	15m	PVC
PXPTPU05RAM03ACL150PUR	03	A	Overmold Cable	15m	PUR
PXPPVC05RAM04ACL010PVC	04	A	Overmold Cable	1m	PVC
PXPTPU05RAM04ACL010PUR	04	A	Overmold Cable	1m	PUR
PXPPVC05RAM04ACL020PVC	04	A	Overmold Cable	2m	PVC
PXPTPU05RAM04ACL020PUR	04	A	Overmold Cable	2m	PUR
PXPPVC05RAM04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPTPU05RAM04ACL030PUR	04	A	Overmold Cable	3m	PUR
PXPPVC05RAM04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPTPU05RAM04ACL050PUR	04	A	Overmold Cable	5m	PUR
PXPPVC05RAM04ACL100PVC	04	A	Overmold Cable	10m	PVC
PXPTPU05RAM04ACL100PUR	04	A	Overmold Cable	10m	PUR
PXPPVC05RAM04ACL150PVC	04	A	Overmold Cable	15m	PVC
PXPTPU05RAM04ACL150PUR	04	A	Overmold Cable	15m	PUR

M5 Flex Body Female



PXPTPU05FBF
PXPPVC05FBF

- Available in 3 & 4 Contacts
- Overmold Flex Body
- 1,2,3,5,10 & 15m cable options
- Mates with Inline Body & panel mount connectors



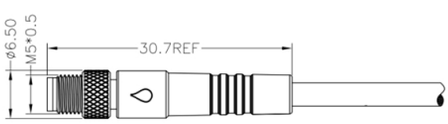
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPPVC05FBF03ACL010PVC	03	A	Overmold Cable	1m	PVC
PXPTPU05FBF03ACL010PUR	03	A	Overmold Cable	1m	PUR
PXPPVC05FBF03ACL020PVC	03	A	Overmold Cable	2m	PVC
PXPTPU05FBF03ACL020PUR	03	A	Overmold Cable	2m	PUR
PXPPVC05FBF03ACL030PVC	03	A	Overmold Cable	3m	PVC
PXPTPU05FBF03ACL030PUR	03	A	Overmold Cable	3m	PUR
PXPPVC05FBF03ACL050PVC	03	A	Overmold Cable	5m	PVC
PXPTPU05FBF03ACL050PUR	03	A	Overmold Cable	5m	PUR
PXPPVC05FBF03ACL100PVC	03	A	Overmold Cable	10m	PVC
PXPTPU05FBF03ACL100PUR	03	A	Overmold Cable	10m	PUR
PXPPVC05FBF03ACL150PVC	03	A	Overmold Cable	15m	PVC
PXPTPU05FBF03ACL150PUR	03	A	Overmold Cable	15m	PUR
PXPPVC05FBF04ACL010PVC	04	A	Overmold Cable	1m	PVC
PXPTPU05FBF04ACL010PUR	04	A	Overmold Cable	1m	PUR
PXPPVC05FBF04ACL020PVC	04	A	Overmold Cable	2m	PVC
PXPTPU05FBF04ACL020PUR	04	A	Overmold Cable	2m	PUR
PXPPVC05FBF04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPTPU05FBF04ACL030PUR	04	A	Overmold Cable	3m	PUR
PXPPVC05FBF04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPTPU05FBF04ACL050PUR	04	A	Overmold Cable	5m	PUR
PXPPVC05FBF04ACL100PVC	04	A	Overmold Cable	10m	PVC
PXPTPU05FBF04ACL100PUR	04	A	Overmold Cable	10m	PUR
PXPPVC05FBF04ACL150PVC	04	A	Overmold Cable	15m	PVC
PXPTPU05FBF04ACL150PUR	04	A	Overmold Cable	15m	PUR

M5 Inline Body Male



PXPTPU05FIM
PXPPVC05FIM

- Available in 3 & 4 Contacts
- 1,2,3,5,10 & 15m cable options
- Overmold Inline Body
- Mates with Flex Body & panel mount connectors



Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPPVC05FIM03ACL010PVC	03	A	Overmold Cable	1m	PVC
PXPTPU05FIM03ACL010PUR	03	A	Overmold Cable	1m	PUR
PXPPVC05FIM03ACL020PVC	03	A	Overmold Cable	2m	PVC
PXPTPU05FIM03ACL020PUR	03	A	Overmold Cable	2m	PUR
PXPPVC05FIM03ACL030PVC	03	A	Overmold Cable	3m	PVC
PXPTPU05FIM03ACL030PUR	03	A	Overmold Cable	3m	PUR
PXPPVC05FIM03ACL050PVC	03	A	Overmold Cable	5m	PVC
PXPTPU05FIM03ACL050PUR	03	A	Overmold Cable	5m	PUR
PXPPVC05FIM03ACL100PVC	03	A	Overmold Cable	10m	PVC
PXPTPU05FIM03ACL100PUR	03	A	Overmold Cable	10m	PUR
PXPPVC05FIM03ACL150PVC	03	A	Overmold Cable	15m	PVC
PXPTPU05FIM03ACL150PUR	03	A	Overmold Cable	15m	PUR
PXPPVC05FIM04ACL010PVC	04	A	Overmold Cable	1m	PVC
PXPTPU05FIM04ACL010PUR	04	A	Overmold Cable	1m	PUR
PXPPVC05FIM04ACL020PVC	04	A	Overmold Cable	2m	PVC
PXPTPU05FIM04ACL020PUR	04	A	Overmold Cable	2m	PUR
PXPPVC05FIM04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPTPU05FIM04ACL030PUR	04	A	Overmold Cable	3m	PUR
PXPPVC05FIM04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPTPU05FIM04ACL050PUR	04	A	Overmold Cable	5m	PUR
PXPPVC05FIM04ACL100PVC	04	A	Overmold Cable	10m	PVC
PXPTPU05FIM04ACL100PUR	04	A	Overmold Cable	10m	PUR
PXPPVC05FIM04ACL150PVC	04	A	Overmold Cable	15m	PVC
PXPTPU05FIM04ACL150PUR	04	A	Overmold Cable	15m	PUR

Electrical

No. Contacts:	3	4
Current Rating:	1A	1A
Voltage Rating (ac/dc) :	60V	60V
Contact Resistance:	<10mΩ	
Insulation Resistance:	>100MΩ	
AC Breakdown Voltage:		
3 Contacts	1.5KV	
4 Contacts	1.5KV	
Operating Temp Range:	-25°C to 80°C	

Mechanical:

Locking Mechanism:	Screw coupling
Rating:	IP67
Contacts:	Terminations:
3 Contacts	Flying Lead / PCB / Cable
4 Contacts	Flying Lead / PCB / Cable
Mechanical Operation:	500 mating cycles
Diameter over coupling ring:	6.5mm

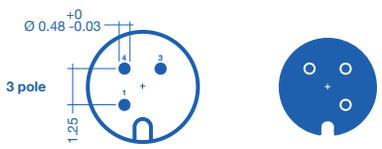
	Panel Mounting Connectors:	Cable Connectors:
Body Material:	Nickel Plated Brass	TPU / PVC
Coupling Nut Material:	Nickel Plated Brass	Nickel Plated Brass
Colour:	Grey	Black
Plug Contacts Material:	Brass, Gold plating	Brass, Gold plating
Socket Contacts Material:	Phosphor Bronze, Gold plating	Phosphor Bronze, Gold plating
O Rings & Gaskets Materials:	Viton	Viton
RoHS:	Compliant	Compliant

XXX	XXX	XX	XX	X	XX	X	XX
Series	**Material**	**Series Size**	**Body Style**	**Orientation**	**Contacts**	**Code**	**Termination**
PXM	BNI = Brass Nickel	05	FB = Flex Body	M = Male	03	A	FL = Flying Lead
PXP	TPU = overmold for PUR		FI = Inline Body	F = Female	04		PC = PCB
	PVC = overmold for PVC		FP = Front Panel Mounting				CL = Cable
			RP = Rear Panel Mounting				
			RA = Right Angle				

XXX	XXX
Lead Length	**Cable Material**
001 = 100mm	PUR
002 = 200mm	PVC
003 = 300mm	
010 = 1m	
030 = 3m	
050 = 5m	
100 = 10m	
150 = 15m	

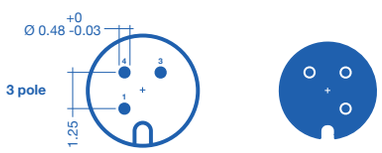
Contact Diagrams (Front View 'A' Code):

XXXXXXXXXXM03XXXXXXXXX
XXXXXXXXXXF03XXXXXXXXX



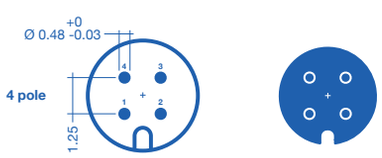
P1	PAIR	WIRE COLOUR	P2
1	—	RED	1
3	—	GREEN	3
4	—	BLACK	4

PXPPVC05FBF03ACLXXXPVC



P1	PAIR	WIRE COLOUR	P2
1	—	BROWN	1
3	—	BLUE	3
4	—	BLACK	4

XXXXXXXXXXM04XXXXXXXXX
XXXXXXXXXXF04XXXXXXXXX



P1	PAIR	WIRE COLOUR	P2
1	—	RED	1
2	—	WHITE	2
3	—	GREEN	3
4	—	BLACK	4

Bulgin's M8 circular connectors and overmolded cables are designed to fulfil the ever growing demand for sensor, actuator and data connections in process control, industrial machinery and factory automation applications.



These compact sensor and automation connectors with screw lock coupling are mechanically and chemically robust, easy to install, minimise downtime and help to increase production efficiency. Rated to the IP67 rating, Bulgin's M8 Series ensure safe, secure and reliable protection from liquids, dust, moisture and dirt whilst also providing great resistance against vibrations to ensure that connections are not disrupted.

Key features:

- Straight & right angled configurations
- 3, 4 or 5 contacts
- Metal & plastic shell options
- A, B & P coded
- Environmental protection rating IP67
- Field installable connectors, panel mounts & overmolded cable options
- PVC or PUR jacketed cable variants with many lengths from 1m – 15m
- Compliant with EN 61076-2-104

M8 Series coding options:
(Full Contact Diagrams Page 218)



A-Coding



B-Coding



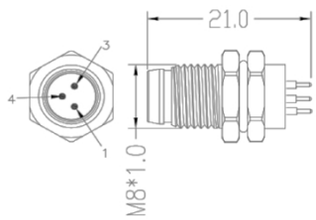
P-Coding

M8 Rear Panel Mounting Male



PXMBNI08RPM

- Available in 3, 4, 5 & 8 Contacts
- PCB or flying lead termination
- Mates with Flex Body connectors



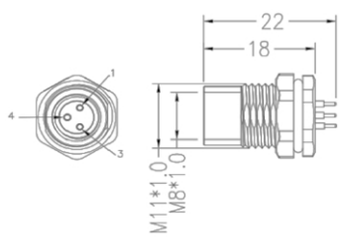
Part Number	Contacts	Code	Termination	Lead Length
PXMBNI08RPM03APC	03	A	PCB Terminal	-
PXMBNI08RPM04APC	04	A	PCB Terminal	-
PXMBNI08RPM05BPC	05	B	PCB Terminal	-
PXMBNI08RPM03AFL001	03	A	Flying Lead	100mm
PXMBNI08RPM03AFL002	03	A	Flying Lead	200mm
PXMBNI08RPM03AFL003	03	A	Flying Lead	300mm
PXMBNI08RPM04AFL001	04	A	Flying Lead	100mm
PXMBNI08RPM04AFL002	04	A	Flying Lead	200mm
PXMBNI08RPM04AFL003	04	A	Flying Lead	300mm
PXMBNI08RPM05BFL001	05	B	Flying Lead	100mm
PXMBNI08RPM05BFL002	05	B	Flying Lead	200mm
PXMBNI08RPM05BFL003	05	B	Flying Lead	300mm
PXMBNI08RPM08AFLM8002	08	A	Flying Lead	200mm

M8 Rear Panel Mounting Female



PXMBNI08RPF

- Available in 3, 4, 5, 6 & 8 Contacts
- PCB or flying lead termination
- Mates with Inline Body connectors



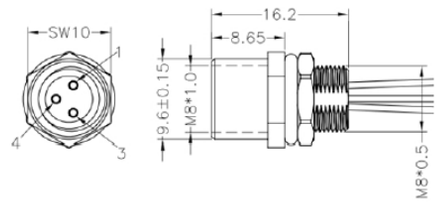
Part Number	Contacts	Code	Termination	Lead Length
PXMBNI08RPF03APC	03	A	PCB Terminal	-
PXMBNI08RPF04APC	04	A	PCB Terminal	-
PXMBNI08RPF05BPC	05	B	PCB Terminal	-
PXMBNI08RPF03AFL001	03	A	Flying Lead	100mm
PXMBNI08RPF03AFL002	03	A	Flying Lead	200mm
PXMBNI08RPF03AFL003	03	A	Flying Lead	300mm
PXMBNI08RPF04AFL001	04	A	Flying Lead	100mm
PXMBNI08RPF04AFL002	04	A	Flying Lead	200mm
PXMBNI08RPF04AFL003	04	A	Flying Lead	300mm
PXMBNI08RPF05BFL001	05	B	Flying Lead	100mm
PXMBNI08RPF05BFL002	05	B	Flying Lead	200mm
PXMBNI08RPF05BFL003	05	B	Flying Lead	300mm
PXMBNI08RPF06AFLM8001	06	A	Flying Lead	100mm
PXMBNI08RPF08AFLM8002	08	A	Flying Lead	200mm

M8 Front Panel Mounting Female



PXMBNI08FPF

- Available in 3, 4, 5, 6 & 8 Contacts
- Flying lead termination
- Mates with Inline Body connector



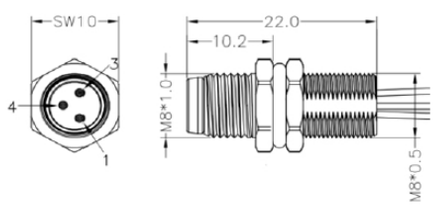
Part Number	Contacts	Code	Termination	Lead Length
PXMBNI08FPF03AFL001	03	A	Flying Lead	100mm
PXMBNI08FPF03AFL002	03	A	Flying Lead	200mm
PXMBNI08FPF03AFL003	03	B	Flying Lead	300mm
PXMBNI08FPF04AFL001	04	A	Flying Lead	100mm
PXMBNI08FPF04AFL002	04	A	Flying Lead	200mm
PXMBNI08FPF04AFL003	04	A	Flying Lead	300mm
PXMBNI08FPF05BFL001	05	B	Flying Lead	100mm
PXMBNI08FPF05BFL002	05	B	Flying Lead	200mm
PXMBNI08FPF05BFL003	05	B	Flying Lead	300mm
PXMBNI08FPF06AFLM11001	06	A	Flying Lead	100mm
PXMBNI08FPF08AFLM11002	08	A	Flying Lead	200mm

M8 Front Panel Mounting Male



PXMBNI08FPM

- Available in 3, 4 & 5 Contacts
- PCB or flying lead termination
- Mates with Flex Body connectors



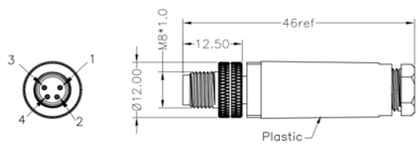
Part Number	Contacts	Code	Termination	Lead Length
PXMBNI08FPM03AFL001	03	A	Flying Lead	100mm
PXMBNI08FPM03AFL002	03	A	Flying Lead	200mm
PXMBNI08FPM03AFL003	03	A	Flying Lead	300mm
PXMBNI08FPM04AFL001	04	A	Flying Lead	100mm
PXMBNI08FPM04AFL002	04	A	Flying Lead	200mm
PXMBNI08FPM04AFL003	04	A	Flying Lead	300mm
PXMBNI08FPM05BFL001	05	B	Flying Lead	100mm
PXMBNI08FPM05BFL002	05	B	Flying Lead	200mm
PXMBNI08FPM05BFL003	05	B	Flying Lead	300mm
PXMBNI08FPM04PPC	04	P	PCB Terminal	-

M8 Inline Body Male



PXPPAM08FIM

- Available in 3 & 4 Contacts
- Screw termination
- Plastic Inline Body
- Mates with Flex Body and panel mount connectors



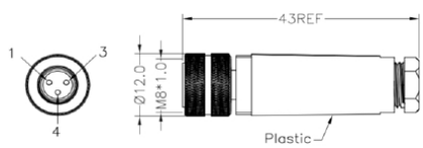
Part Number	Contacts	Code	Termination	Cable Entry
PXPPAM08FIM03AST	03	A	Screw Terminal	3-5.5mm
PXPPAM08FIM04AST	04	A	Screw Terminal	3-5.5mm

M8 Flex Body Female



PXPPAM08FBF

- Available in 3 & 4 Contacts
- Screw termination
- Plastic Flex Body
- Mates with Inline Body and panel mount connectors



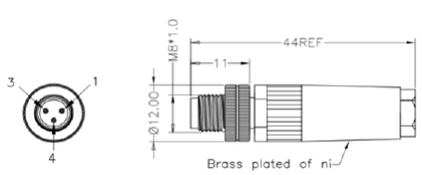
Part Number	Contacts	Code	Termination	Cable Entry
PXPPAM08FBF03AST	03	A	Screw Terminal	3-5.5mm
PXPPAM08FBF04AST	04	A	Screw Terminal	3-5.5mm

Brass - Nickel Plating M8 Inline Body Male



PXMBNI08FIM

- Available in 3, 4 & 5 Contacts
- Solder termination
- Metal Inline Body
- Mates with Flex Body and panel mount connectors



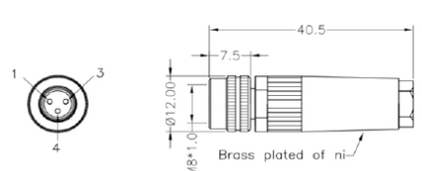
Part Number	Contacts	Code	Termination	Cable Entry
PXMBNI08FIM03ASC	03	A	Solder Terminal	3-5.5mm
PXMBNI08FIM04ASC	04	A	Solder Terminal	3-5.5mm
PXMBNI08FIM05BSC	05	B	Solder Terminal	3-5.5mm

Brass - Nickel Plating M8 Flex Body Female



PXMBNI08FBF

- Available in 3, 4 & 5 Contacts
- Solder termination
- Metal Flex Body
- Mates with Inline Body and panel mount connectors



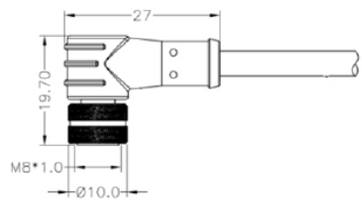
Part Number	Contacts	Code	Termination	Cable Entry
PXMBNI08FBF03ASC	03	A	Solder Terminal	3-5.5mm
PXMBNI08FBF04ASC	04	A	Solder Terminal	3-5.5mm
PXMBNI08FBF05BSC	05	B	Solder Terminal	3-5mm

M8 Right Angled Female



PXPTPU08RAF
PXPPVC08RAF

- Available in 3, 4, 5, 6 & 8 Contacts
- 1,1.5,2,3,5,7.5,10 & 15m cable options
- Overmold Flex Body
- Mates with Inline Body & panel mount connectors



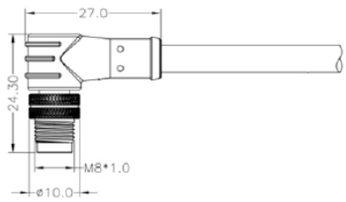
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPPVC08RAF03ACL010PVC	03	A	Overmold Cable	1m	PVC
PXPTPU08RAF03ACL010PUR	03	A	Overmold Cable	1m	PUR
PXPPVC08RAF03ACL020PVC	03	A	Overmold Cable	2m	PVC
PXPTPU08RAF03ACL020PUR	03	A	Overmold Cable	2m	PUR
PXPPVC08RAF03ACL030PVC	03	A	Overmold Cable	3m	PVC
PXPTPU08RAF03ACL030PUR	03	A	Overmold Cable	3m	PUR
PXPPVC08RAF03ACL050PVC	03	A	Overmold Cable	5m	PVC
PXPTPU08RAF03ACL050PUR	03	A	Overmold Cable	5m	PUR
PXPPVC08RAF03ACL100PVC	03	A	Overmold Cable	10m	PVC
PXPTPU08RAF03ACL100PUR	03	A	Overmold Cable	10m	PUR
PXPPVC08RAF03ACL150PVC	03	A	Overmold Cable	15m	PVC
PXPTPU08RAF03ACL150PUR	03	A	Overmold Cable	15m	PUR
PXPPVC08RAF04ACL010PVC	04	A	Overmold Cable	1m	PVC
PXPTPU08RAF04ACL010PUR	04	A	Overmold Cable	1m	PUR
PXPPVC08RAF04ACL020PVC	04	A	Overmold Cable	2m	PVC
PXPTPU08RAF04ACL020PUR	04	A	Overmold Cable	2m	PUR
PXPPVC08RAF04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPTPU08RAF04ACL030PUR	04	A	Overmold Cable	3m	PUR
PXPPVC08RAF04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPTPU08RAF04ACL050PUR	04	A	Overmold Cable	5m	PUR
PXPPVC08RAF04ACL100PVC	04	A	Overmold Cable	10m	PVC
PXPTPU08RAF04ACL100PUR	04	A	Overmold Cable	10m	PUR
PXPPVC08RAF04ACL150PVC	04	A	Overmold Cable	15m	PVC
PXPTPU08RAF04ACL150PUR	04	A	Overmold Cable	15m	PUR
PXPPVC08RAF05BCL010PVC	05	B	Overmold Cable	1m	PVC
PXPTPU08RAF05BCL010PUR	05	B	Overmold Cable	1m	PUR
PXPPVC08RAF05BCL020PVC	05	B	Overmold Cable	2m	PVC
PXPTPU08RAF05BCL020PUR	05	B	Overmold Cable	2m	PUR
PXPPVC08RAF05BCL030PVC	05	B	Overmold Cable	3m	PVC
PXPTPU08RAF05BCL030PUR	05	B	Overmold Cable	3m	PUR
PXPPVC08RAF05BCL050PVC	05	B	Overmold Cable	5m	PVC
PXPTPU08RAF05BCL050PUR	05	B	Overmold Cable	5m	PUR
PXPPVC08RAF05BCL100PVC	05	B	Overmold Cable	10m	PVC
PXPTPU08RAF05BCL100PUR	05	B	Overmold Cable	10m	PUR
PXPPVC08RAF05BCL150PVC	05	B	Overmold Cable	15m	PVC
PXPTPU08RAF05BCL150PUR	05	B	Overmold Cable	15m	PUR
PXPPVC08RAF06ACL010PVC	06	A	Overmold Cable	1m	PVC
PXPPVC08RAF06ACL020PVC	06	A	Overmold Cable	2m	PVC
PXPPVC08RAF08ACL010PVC	08	A	Overmold Cable	1m	PVC
PXPPNP08RAF04ACL015PVC	04	A	Overmold Cable	1.5m	PVC
PXPPNP08RAF04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPPNP08RAF04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPPNP08RAF04ACL075PVC	04	A	Overmold Cable	7.5m	PVC
PXPPNP08RAF04ACL100PVC	04	A	Overmold Cable	10m	PVC

M8 Right Angled Male



PXPTPU08RAM
PXPPVC08RAM

- Available in 3, 4 & 5 Contacts
- 1,2,3,5,10 & 15m cable options
- Overmold Inline Body
- Mates with Flex Body & panel mount connectors



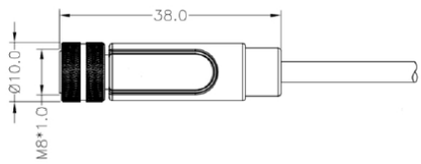
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPPVC08RAM03ACL010PVC	03	A	Overmold Cable	1m	PVC
PXPTPU08RAM03ACL010PUR	03	A	Overmold Cable	1m	PUR
PXPPVC08RAM03ACL020PVC	03	A	Overmold Cable	2m	PVC
PXPTPU08RAM03ACL020PUR	03	A	Overmold Cable	2m	PUR
PXPPVC08RAM03ACL030PVC	03	A	Overmold Cable	3m	PVC
PXPTPU08RAM03ACL030PUR	03	A	Overmold Cable	3m	PUR
PXPPVC08RAM03ACL050PVC	03	A	Overmold Cable	5m	PVC
PXPTPU08RAM03ACL050PUR	03	A	Overmold Cable	5m	PUR
PXPPVC08RAM03ACL100PVC	03	A	Overmold Cable	10m	PVC
PXPTPU08RAM03ACL100PUR	03	A	Overmold Cable	10m	PUR
PXPPVC08RAM03ACL150PVC	03	A	Overmold Cable	15m	PVC
PXPTPU08RAM03ACL150PUR	03	A	Overmold Cable	15m	PUR
PXPPVC08RAM04ACL010PVC	04	A	Overmold Cable	1m	PVC
PXPTPU08RAM04ACL010PUR	04	A	Overmold Cable	1m	PUR
PXPPVC08RAM04ACL020PVC	04	A	Overmold Cable	2m	PVC
PXPTPU08RAM04ACL020PUR	04	A	Overmold Cable	2m	PUR
PXPPVC08RAM04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPTPU08RAM04ACL030PUR	04	A	Overmold Cable	3m	PUR
PXPPVC08RAM04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPTPU08RAM04ACL050PUR	04	A	Overmold Cable	5m	PUR
PXPPVC08RAM04ACL100PVC	04	A	Overmold Cable	10m	PVC
PXPTPU08RAM04ACL100PUR	04	A	Overmold Cable	10m	PUR
PXPPVC08RAM04ACL150PVC	04	A	Overmold Cable	15m	PVC
PXPTPU08RAM04ACL150PUR	04	A	Overmold Cable	15m	PUR
PXPPVC08RAM05BCL010PVC	05	B	Overmold Cable	1m	PVC
PXPTPU08RAM05BCL010PUR	05	B	Overmold Cable	1m	PUR
PXPPVC08RAM05BCL020PVC	05	B	Overmold Cable	2m	PVC
PXPTPU08RAM05BCL020PUR	05	B	Overmold Cable	2m	PUR
PXPPVC08RAM05BCL030PVC	05	B	Overmold Cable	3m	PVC
PXPTPU08RAM05BCL030PUR	05	B	Overmold Cable	3m	PUR
PXPPVC08RAM05BCL050PVC	05	B	Overmold Cable	5m	PVC
PXPTPU08RAM05BCL050PUR	05	B	Overmold Cable	5m	PUR
PXPPVC08RAM05BCL100PVC	05	B	Overmold Cable	10m	PVC
PXPTPU08RAM05BCL100PUR	05	B	Overmold Cable	10m	PUR
PXPPVC08RAM05BCL150PVC	05	B	Overmold Cable	15m	PVC
PXPTPU08RAM05BCL150PUR	05	B	Overmold Cable	15m	PUR

M8 Flex Body Female



PXPTPU08FBF
PXPPVC08FBF

- Available in 3, 4, 5, 6 & 8 Contacts
- 1,2,3,5,10 & 15m cable options
- Overmold Flex Body
- Mates with Inline Body & panel mount connectors



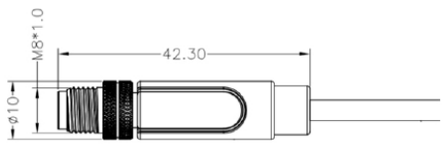
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
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PXPTPU08FBF03ACL010PUR	03	A	Overmold Cable	1m	PUR
PXPPVC08FBF03ACL020PVC	03	A	Overmold Cable	2m	PVC
PXPTPU08FBF03ACL020PUR	03	A	Overmold Cable	2m	PUR
PXPPVC08FBF03ACL030PVC	03	A	Overmold Cable	3m	PVC
PXPTPU08FBF03ACL030PUR	03	A	Overmold Cable	3m	PUR
PXPPVC08FBF03ACL050PVC	03	A	Overmold Cable	5m	PVC
PXPTPU08FBF03ACL050PUR	03	A	Overmold Cable	5m	PUR
PXPPVC08FBF03ACL100PVC	03	A	Overmold Cable	10m	PVC
PXPTPU08FBF03ACL100PUR	03	A	Overmold Cable	10m	PUR
PXPPVC08FBF03ACL150PVC	03	A	Overmold Cable	15m	PVC
PXPTPU08FBF03ACL150PUR	03	A	Overmold Cable	15m	PUR
PXPPVC08FBF04ACL010PVC	04	A	Overmold Cable	1m	PVC
PXPTPU08FBF04ACL010PUR	04	A	Overmold Cable	1m	PUR
PXPPVC08FBF04ACL020PVC	04	A	Overmold Cable	2m	PVC
PXPTPU08FBF04ACL020PUR	04	A	Overmold Cable	2m	PUR
PXPPVC08FBF04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPTPU08FBF04ACL030PUR	04	A	Overmold Cable	3m	PUR
PXPPVC08FBF04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPTPU08FBF04ACL050PUR	04	A	Overmold Cable	5m	PUR
PXPPVC08FBF04ACL100PVC	04	A	Overmold Cable	10m	PVC
PXPTPU08FBF04ACL100PUR	04	A	Overmold Cable	10m	PUR
PXPPVC08FBF04ACL150PVC	04	A	Overmold Cable	15m	PVC
PXPTPU08FBF04ACL150PUR	04	A	Overmold Cable	15m	PUR
PXPPVC08FBF05BCL010PVC	05	B	Overmold Cable	1m	PVC
PXPTPU08FBF05BCL010PUR	05	B	Overmold Cable	1m	PUR
PXPPVC08FBF05BCL020PVC	05	B	Overmold Cable	2m	PVC
PXPTPU08FBF05BCL020PUR	05	B	Overmold Cable	2m	PUR
PXPPVC08FBF05BCL030PVC	05	B	Overmold Cable	3m	PVC
PXPTPU08FBF05BCL030PUR	05	B	Overmold Cable	3m	PUR
PXPPVC08FBF05BCL050PVC	05	B	Overmold Cable	5m	PVC
PXPTPU08FBF05BCL050PUR	05	B	Overmold Cable	5m	PUR
PXPPVC08FBF05BCL100PVC	05	B	Overmold Cable	10m	PVC
PXPTPU08FBF05BCL100PUR	05	B	Overmold Cable	10m	PUR
PXPPVC08FBF05BCL150PVC	05	B	Overmold Cable	15m	PVC
PXPTPU08FBF05BCL150PUR	05	B	Overmold Cable	15m	PUR
PXPPVC08FBF06ACL010PVC	06	A	Overmold Cable	1m	PVC
PXPPVC08FBF08ACL010PVC	08	A	Overmold Cable	1m	PVC
PXPTPU08FBF04PCL010PUR	04	P	Overmold Cable	1m	PUR

M8 Inline Body Male



PXPTPU08FIM
PXPPVC08FIM

- Available in 3, 4 & 5 Contacts
- 1,1.5,2,3,5,7.5,10 & 15m cable options
- Overmold Inline Body Mates with Flex Body & panel mount connectors



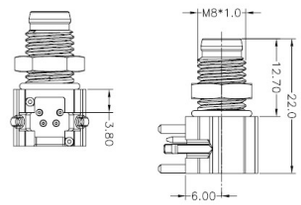
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPPVC08FIM03ACL010PVC	03	A	Overmold Cable	1m	PVC
PXPTPU08FIM03ACL010PUR	03	A	Overmold Cable	1m	PUR
PXPPVC08FIM03ACL020PVC	03	A	Overmold Cable	2m	PVC
PXPTPU08FIM03ACL020PUR	03	A	Overmold Cable	2m	PUR
PXPPVC08FIM03ACL030PVC	03	A	Overmold Cable	3m	PVC
PXPTPU08FIM03ACL030PUR	03	A	Overmold Cable	3m	PUR
PXPPVC08FIM03ACL050PVC	03	A	Overmold Cable	5m	PVC
PXPTPU08FIM03ACL050PUR	03	A	Overmold Cable	5m	PUR
PXPPVC08FIM03ACL100PVC	03	A	Overmold Cable	10m	PVC
PXPTPU08FIM03ACL100PUR	03	A	Overmold Cable	10m	PUR
PXPPVC08FIM03ACL150PVC	03	A	Overmold Cable	15m	PVC
PXPTPU08FIM03ACL150PUR	03	A	Overmold Cable	15m	PUR
PXPPVC08FIM04ACL010PVC	04	A	Overmold Cable	1m	PVC
PXPTPU08FIM04ACL010PUR	04	A	Overmold Cable	1m	PUR
PXPPVC08FIM04ACL020PVC	04	A	Overmold Cable	2m	PVC
PXPTPU08FIM04ACL020PUR	04	A	Overmold Cable	2m	PUR
PXPPVC08FIM04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPTPU08FIM04ACL030PUR	04	A	Overmold Cable	3m	PUR
PXPPVC08FIM04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPTPU08FIM04ACL050PUR	04	A	Overmold Cable	5m	PUR
PXPPVC08FIM04ACL100PVC	04	A	Overmold Cable	10m	PVC
PXPTPU08FIM04ACL100PUR	04	A	Overmold Cable	10m	PUR
PXPPVC08FIM04ACL150PVC	04	A	Overmold Cable	15m	PVC
PXPTPU08FIM04ACL150PUR	04	A	Overmold Cable	15m	PUR
PXPPVC08FIM05BCL010PVC	05	B	Overmold Cable	1m	PVC
PXPTPU08FIM05BCL010PUR	05	B	Overmold Cable	1m	PUR
PXPPVC08FIM05BCL020PVC	05	B	Overmold Cable	2m	PVC
PXPTPU08FIM05BCL020PUR	05	B	Overmold Cable	2m	PUR
PXPPVC08FIM05BCL030PVC	05	B	Overmold Cable	3m	PVC
PXPTPU08FIM05BCL030PUR	05	B	Overmold Cable	3m	PUR
PXPPVC08FIM05BCL050PVC	05	B	Overmold Cable	5m	PVC
PXPTPU08FIM05BCL050PUR	05	B	Overmold Cable	5m	PUR
PXPPVC08FIM05BCL100PVC	05	B	Overmold Cable	10m	PVC
PXPTPU08FIM05BCL100PUR	05	B	Overmold Cable	10m	PUR
PXPPVC08FIM05BCL150PVC	05	B	Overmold Cable	15m	PVC
PXPTPU08FIM05BCL150PUR	05	B	Overmold Cable	15m	PUR
PXPPNP08FIM04ACL015PVC	04	A	Overmold Cable	1.5m	PVC
PXPPNP08FIM04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPPNP08FIM04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPPNP08FIM04ACL075PVC	04	A	Overmold Cable	7.5m	PVC
PXPPNP08FIM04ACL100PVC	04	A	Overmold Cable	10m	PVC
PXPTPU08FIM04PCL010PUR	04	P	Overmold Cable	1m	PUR

M8 Right Angle PCB Mount



PXMBNI08RAF
PXMBNI08RAM

- Available in 3 & 4 Contacts
- PCB Termination
- Mates with Inline Body & Flex Body



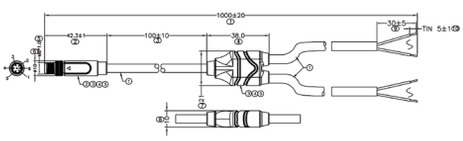
Part Number	Contacts	Code	Termination
PXMBNI08RAF03APCM8	03	A	PCB Terminal
PXMBNI08RAF04APCM8	04	A	PCB Terminal
PXMBNI08RAM03APCM8	03	A	PCB Terminal
PXMBNI08RAM04APCM8	04	A	PCB Terminal

M8 Y-Splitters



PXPPVC08FIM

- Available in 6 & 8 Contacts
- Overmold Flex Body
- Mates with Flex Body



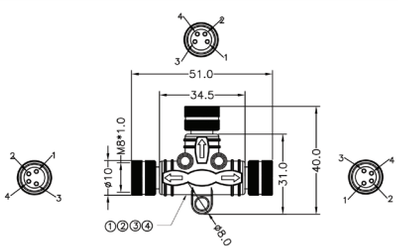
Part Number	Contacts	Code	Termination
PXPPVC08FIM06AYT010PVC	06	A	Overmold Cable
PXPPVC08FIM08AYT010PVC	08	A	Overmold Cable

M8 T-Splitters



PXPPVC08TSMM
PXPPVC08TSFF

- Available in 3 & 4 Contacts
- Mates with Inline Body & Flex Body



Part Number	Contacts	Code	Termination
PXPPVC08TSMM04AFIIFI	04	A	Male-Male-Male
PXPPVC08TSMM03AFIIFI	03	A	Male-Male-Male
PXPPVC08TSFF04AFBBFB	04	A	Female-Female-Female
PXPPVC08TSFF03AFBBFB	03	A	Female-Female-Female

Electrical

No. Contacts:	3	4	5	6	8
Current Rating:	3A	3A	1.5A	1.5A	1.5A
Voltage Rating (ac/dc) :	60V	30V	30V	30V	30V
Contact Resistance:	<10mΩ				
Insulation Resistance:	>100MΩ				
AC Breakdown Voltage:					
3 Contacts		1.5KV			
4 Contacts	0.8KV				
5 Contacts	0.8KV				
6 Contacts	0.8KV				
8 Contacts	0.8KV				
Operating Temp Range:	-25°C to 80°C				

Mechanical:

Locking Mechanism:	Screw coupling
Rating:	IP67
Contact Accommodation:	
3, 4 & 5 Contacts	28AWG-22AWG
Contacts:	Terminations:
3 Contacts	Flying Lead / PCB / Cable Screw / Solder
4 Contacts	Flying Lead / PCB / Cable Screw / Solder
5 Contacts	Flying Lead / PCB / Cable Screw / Solder
6 Contacts	Flying Lead / PCB / Cable Screw / Solder
8 Contacts	Flying Lead / PCB / Cable Screw / Solder
Mechanical Operation:	500 Mating Cycles
Diameter over coupling ring:	12.0mm

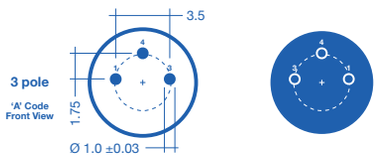
	Panel Mounting Connectors:	Cable Connectors:	Flex & Inline Connectors:
Body Material:	Nickel Plated Brass	TPU / PVC	Nickel Plated Brass / PA66
Coupling Nut Material:	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass
Colour:	Grey	Black	Black or Grey
Plug Contacts Material:	Brass, Gold plating	Brass, Gold plating	Brass, Gold plating
Socket Contacts Material:	Phosphor Bronze, Gold plating	Phosphor Bronze, Gold plating	Phosphor Bronze, Gold plating
O Rings & Gaskets Materials:	Viton	Viton	Viton
RoHS:	Compliant	Compliant	Compliant

XXX	XXX	XX	XX	X or XX	XX	X	XX
Series	**Material**	**Series Size**	**Body Style**	**Orientation**	**Contacts**	**Code**	**Termination**
PXM PXP	BNI = Brass Nickel PAM = Polyamide TPU = overmold for PUR PVC = overmold for PVC PNP = LED PNP	08	FB = Flex Body FI = Inline Body FP = Front Panel Mounting RP = Rear Panel Mounting RA = Right Angle TS = T-Splitter	M = Male F = Female T-Split = MM MF	03 04 05 06 08	A B P	ST = Screw Terminal PC = PCB FL = Flying Lead CL = Cable SC = Solder YT = Y-Type T-Split Only = FIIFI FBIFB FBBFB

XXX	XXX	XXX
Mounting Nut	**Lead Length**	**Cable Material**
M8 M16	001 = 100mm 002 = 200mm 003 = 300mm 010 = 1m 020 = 2m 030 = 3m 050 = 5m 075 = 7.5m 100 = 10m 150 = 15m	PUR PVC

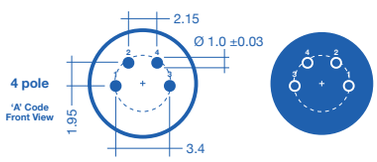
Contact Diagrams:

XXXXXXXXXXM03XXXXXXXXX
XXXXXXXXXXF03XXXXXXXXX



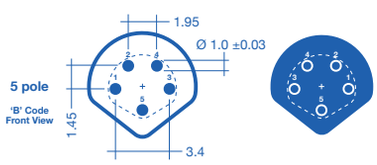
P1	PAIR	WIRE COLOUR	P2
1	—	BROWN	1
3	—	BLUE	3
4	—	BLACK	4

XXXXXXXXXXM04XXXXXXXXX
XXXXXXXXXXF04XXXXXXXXX



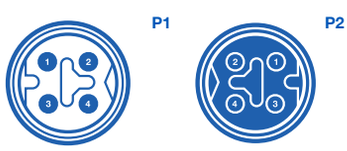
P1	PAIR	WIRE COLOUR	P2
1	—	BROWN	1
2	—	WHITE	2
3	—	BLUE	3
4	—	BLACK	4

XXXXXXXXXXM05XXXXXXXXX
XXXXXXXXXXF05XXXXXXXXX



P1	PAIR	WIRE COLOUR	P2
1	—	BROWN	1
2	—	WHITE	2
3	—	BLUE	3
4	—	BLACK	4
5	—	GREY	5
6	—	PINK	6

XXXXXXXXXXM04XXXXXXXXXXX
XXXXXXXXXXF04XXXXXXXXXXX



4 Plugs P-CODED

P1	PAIR	COLOUR	P2
1	—	YELLOW	1
2	—	WHITE	2
3	—	BLUE	3
4	—	BROWN	4

With a high degree of mechanical and electrical stability, Bulgin's M12 connectors provide a cost effective and flexible connectivity solution for onsite installations, helping to decrease downtime in process control, manufacturing automation and industrial instrumentation applications.



Key features:

- Reliable industry standard (EN 61076-2-101) screw locking mechanism
- IP67 degree of protection
- A, B, D, L, S & T Coded versions
- Field installable, cable and panel mount options
- Plastic and metal options variants
- Straight and right angled forms
- Overmolded PVC, PUR, PNP or NPN cable connectors
- Contact variants from 3 – 17

Full Contact Diagrams Page 234

M12 connectors are established as one of the most reliable and efficient connection standards for Industrial Machinery and Factory Automation applications. With a small footprint, extremely low failure rate and high performance capabilities, this range is ideal not only for sensor connections but also for a variety of fieldbus systems.

These M12 Series circular connectors are rugged, easy to use and extremely reliable solutions for sensor/actuator connectivity in industrial automation and control applications. With an IP67 rating, they are also extremely effective in harsh environments outside of industrial automation applications where compact and dependable connections with environmental protection are required.

Bulgin's field attachable M12 connectors feature a robust aluminium coupling nut, making them a lightweight and durable alternative to the more common nickel-plated M12 nut variants and an ideal plug and play solution for upgrading sensor systems with M12 connectivity.



Bulgin's M12 Series connectors are available in a variety of industry standard keying/coding options to further minimize wiring errors and serve a large variety of customer needs.

M12 Series coding options:
(Full Contact Diagrams Page 234)


A-Coding


B-Coding


D-Coding


L-Coding


S-Coding

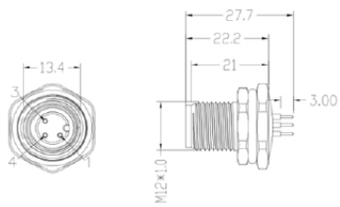

T-Coding

M12 Rear Panel Mounting Male



PXMBNI12RPM

- 3, 4, 5, 8 & 12 Contacts
- PCB termination
- Mates with Flex Body connectors



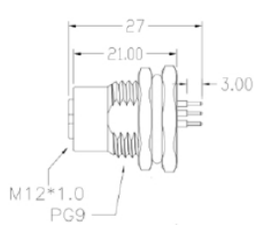
Part Number	Contacts	Code	Termination	Mounting Nut
PXMBNI12RPM03APCPG9	03	A	PCB Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12RPM04APCPG9	04	A	PCB Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12RPM05APCPG9	05	A	PCB Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12RPM08APCPG9	08	A	PCB Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12RPM12APCPG9	12	A	PCB Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12RPM05BPCPG9	05	B	PCB Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12RPM04DPCPG9	04	D	PCB Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12RPM03APCM16	03	A	PCB Terminal	M16 Mounting / Gland Nut Thread
PXMBNI12RPM04APCM16	04	A	PCB Terminal	M16 Mounting / Gland Nut Thread
PXMBNI12RPM05APCM16	05	A	PCB Terminal	M16 Mounting / Gland Nut Thread
PXMBNI12RPM08APCM16	08	A	PCB Terminal	M16 Mounting / Gland Nut Thread
PXMBNI12RPM12APCM16	12	A	PCB Terminal	M16 Mounting / Gland Nut Thread
PXMBNI12RPM05BPCM16	05	B	PCB Terminal	M16 Mounting / Gland Nut Thread
PXMBNI12RPM04DPCM16	04	D	PCB Terminal	M16 Mounting / Gland Nut Thread
PXMBNI12RPM03APCM12	03	A	PCB Terminal	M12 Mounting / Gland Nut Thread
PXMBNI12RPM04APCM12	04	A	PCB Terminal	M12 Mounting / Gland Nut Thread
PXMBNI12RPM05APCM12	05	A	PCB Terminal	M12 Mounting / Gland Nut Thread
PXMBNI12RPM08APCM12	08	A	PCB Terminal	M12 Mounting / Gland Nut Thread
PXMBNI12RPM12APCM12	12	A	PCB Terminal	M12 Mounting / Gland Nut Thread
PXMBNI12RPM05BPCM12	05	B	PCB Terminal	M12 Mounting / Gland Nut Thread
PXMBNI12RPM04DPCM12	04	D	PCB Terminal	M12 Mounting / Gland Nut Thread

M12 Rear Panel Mounting Female



PXMBNI12RPF

- 3, 4, 5, 8 & 12 Contacts
- PCB termination
- Mates with Inline Body connectors



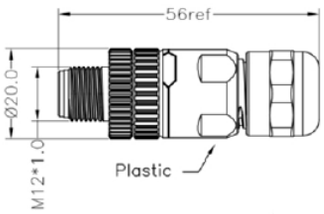
Part Number	Contacts	Code	Termination	Mounting Nut
PXMBNI12RPF03APCPG9	03	A	PCB Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12RPF04APCPG9	04	A	PCB Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12RPF05APCPG9	05	A	PCB Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12RPF08APCPG9	08	A	PCB Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12RPF12APCPG9	12	A	PCB Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12RPF05BPCPG9	05	B	PCB Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12RPF04DPCPG9	04	D	PCB Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12RPF03APCM16	03	A	PCB Terminal	M16 Mounting / Gland Nut Thread
PXMBNI12RPF04APCM16	04	A	PCB Terminal	M16 Mounting / Gland Nut Thread
PXMBNI12RPF05APCM16	05	A	PCB Terminal	M16 Mounting / Gland Nut Thread
PXMBNI12RPF08APCM16	08	A	PCB Terminal	M16 Mounting / Gland Nut Thread
PXMBNI12RPF12APCM16	12	A	PCB Terminal	M16 Mounting / Gland Nut Thread
PXMBNI12RPF05BPCM16	05	B	PCB Terminal	M16 Mounting / Gland Nut Thread
PXMBNI12RPF04DPCM16	04	D	PCB Terminal	M16 Mounting / Gland Nut Thread

M12 Inline Body Male



PXPPAM12FIM

- 3, 4, 5 & 8 Contacts
- Screw termination
- Plastic Inline Body
- Mates with Flex body and panel mount connectors
- Aluminum rotating locking threaded collar



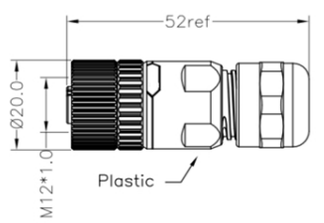
Part Number	Contacts	Code	Termination
PXPPAM12FIM03ASTPG9	03	A	Screw Terminal
PXPPAM12FIM04ASTPG9	04	A	Screw Terminal
PXPPAM12FIM05ASTPG9	05	A	Screw Terminal
PXPPAM12FIM08ASTPG9	08	A	Screw Terminal

M12 Flex Body Female



PXPPAM12FBF

- 3, 4, 5 & 8 Contacts
- Screw termination
- Plastic Flex Body
- Mates with Inline Body and panel mount connectors
- Aluminum rotating locking threaded collar



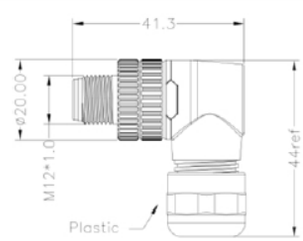
Part Number	Contacts	Code	Termination
PXPPAM12FBF03ASTPG9	03	A	Screw Terminal
PXPPAM12FBF04ASTPG9	04	A	Screw Terminal
PXPPAM12FBF05ASTPG9	05	A	Screw Terminal
PXPPAM12FBF08ASTPG9	08	A	Screw Terminal

M12 Right Angled Male



PXPPAM12RAM

- 3, 4, 5 & 8 Contacts
- Screw termination
- Plastic Inline Body
- Mates with Flex Body and panel mount connectors
- Aluminum rotating locking threaded collar



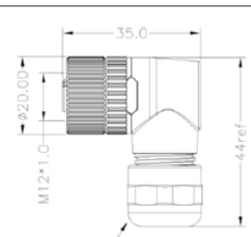
Part Number	Contacts	Code	Termination
PXPPAM12RAM03ASTPG9	03	A	Screw Terminal
PXPPAM12RAM04ASTPG9	04	A	Screw Terminal
PXPPAM12RAM05ASTPG9	05	A	Screw Terminal
PXPPAM12RAM08ASTPG9	08	A	Screw Terminal

M12 Right Angled Female



PXPPAM12RAF

- 3, 4, 5 & 8 Contacts
- Screw termination
- Plastic Flex Body
- Mates with Inline Body and panel mount connectors
- Aluminum rotating locking threaded collar



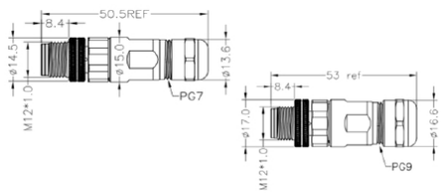
Part Number	Contacts	Code	Termination
PXPPAM12RAF03ASTPG9	03	A	Screw Terminal
PXPPAM12RAF04ASTPG9	04	A	Screw Terminal
PXPPAM12RAF05ASTPG9	05	A	Screw Terminal
PXPPAM12RAF08ASTPG9	08	A	Screw Terminal

Nickel Plating M12 Inline Body Male



PXMBNI12FIM

- 3, 4, 5, 8 & 12 Contacts
- Solder termination
- Metal Inline Body
- Mates with Flex body and panel mount connectors



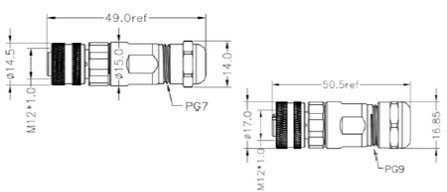
Part Number	Contacts	Code	Termination	Mounting Nut
PXMBNI12FIM03ASCPG7	03	A	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FIM04ASCPG7	04	A	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FIM05ASCPG7	05	A	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FIM08ASCPG7	08	A	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FIM12ASCPG7	12	A	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FIM05BSCPG7	05	B	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FIM04DSCPG7	04	D	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FIM03ASCPG9	03	A	Solder Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12FIM04ASCPG9	04	A	Solder Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12FIM05ASCPG9	05	A	Solder Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12FIM08ASCPG9	08	A	Solder Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12FIM12ASCPG9	12	A	Solder Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12FIM05BSCPG9	05	B	Solder Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12FIM04DSCPG9	04	D	Solder Terminal	PG9 Mounting / Gland Nut Thread

Nickel Plating M12 Flex Body Female



PXMBNI12FBF

- 3, 4, 5, 8 & 12 Contacts
- Solder termination
- Metal Flex Body
- Mates with Inline Body and panel mount connectors



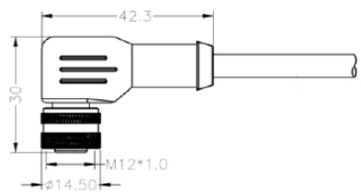
Part Number	Contacts	Code	Termination	Mounting Nut
PXMBNI12FBF03ASCPG7	03	A	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FBF04ASCPG7	04	A	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FBF05ASCPG7	05	A	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FBF08ASCPG7	08	A	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FBF12ASCPG7	12	A	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FBF05BSCPG7	05	B	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FBF04DSCPG7	04	D	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FBF04TSCPG7	04	T	Solder Terminal	PG7 Mounting / Gland Nut Thread
PXMBNI12FBF03ASCPG9	03	A	Solder Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12FBF04ASCPG9	04	A	Solder Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12FBF05ASCPG9	05	A	Solder Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12FBF08ASCPG9	08	A	Solder Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12FBF12ASCPG9	12	A	Solder Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12FBF05BSCPG9	05	B	Solder Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12FBF04DSCPG9	04	D	Solder Terminal	PG9 Mounting / Gland Nut Thread
PXMBNI12FBF04TSCPG9	04	T	Solder Terminal	PG7 Mounting / Gland Nut Thread

M12 Right Angled Female



PXPTPU12RAF
PXPPVC12RAF

- 3, 4, 5, 8 & 12 Contacts
- 1, 2, 3, 5, 10 & 15m cable options
- Overmold Flex Body
- Mates with Inline Body & panel mount connectors
- Nickel plating rotating locking threaded collar



Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPPVC12RAF03ACL010PVC	03	A	Overmold Cable	1m	PVC
PXPTPU12RAF03ACL010PUR	03	A	Overmold Cable	1m	PUR
PXPPVC12RAF03ACL020PVC	03	A	Overmold Cable	2m	PVC
PXPTPU12RAF03ACL020PUR	03	A	Overmold Cable	2m	PUR
PXPPVC12RAF03ACL030PVC	03	A	Overmold Cable	3m	PVC
PXPTPU12RAF03ACL030PUR	03	A	Overmold Cable	3m	PUR
PXPPVC12RAF03ACL050PVC	03	A	Overmold Cable	5m	PVC
PXPTPU12RAF03ACL050PUR	03	A	Overmold Cable	5m	PUR
PXPPVC12RAF03ACL100PVC	03	A	Overmold Cable	10m	PVC
PXPTPU12RAF03ACL100PUR	03	A	Overmold Cable	10m	PUR
PXPPVC12RAF03ACL150PVC	03	A	Overmold Cable	15m	PVC
PXPTPU12RAF03ACL150PUR	03	A	Overmold Cable	15m	PUR
PXPPVC12RAF04ACL010PVC	04	A	Overmold Cable	1m	PVC
PXPTPU12RAF04ACL010PUR	04	A	Overmold Cable	1m	PUR
PXPPVC12RAF04ACL020PVC	04	A	Overmold Cable	2m	PVC
PXPTPU12RAF04ACL020PUR	04	A	Overmold Cable	2m	PUR
PXPPVC12RAF04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPTPU12RAF04ACL030PUR	04	A	Overmold Cable	3m	PUR
PXPPVC12RAF04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPTPU12RAF04ACL050PUR	04	A	Overmold Cable	5m	PUR
PXPPVC12RAF04ACL100PVC	04	A	Overmold Cable	10m	PVC
PXPTPU12RAF04ACL100PUR	04	A	Overmold Cable	10m	PUR
PXPPVC12RAF04ACL150PVC	04	A	Overmold Cable	15m	PVC
PXPTPU12RAF04ACL150PUR	04	A	Overmold Cable	15m	PUR
PXPPVC12RAF05ACL010PVC	05	A	Overmold Cable	1m	PVC
PXPTPU12RAF05ACL010PUR	05	A	Overmold Cable	1m	PUR
PXPPVC12RAF05ACL020PVC	05	A	Overmold Cable	2m	PVC
PXPTPU12RAF05ACL020PUR	05	A	Overmold Cable	2m	PUR
PXPPVC12RAF05ACL030PVC	05	A	Overmold Cable	3m	PVC
PXPTPU12RAF05ACL030PUR	05	A	Overmold Cable	3m	PUR
PXPPVC12RAF05ACL050PVC	05	A	Overmold Cable	5m	PVC
PXPTPU12RAF05ACL050PUR	05	A	Overmold Cable	5m	PUR
PXPPVC12RAF05ACL100PVC	05	A	Overmold Cable	10m	PVC
PXPTPU12RAF05ACL100PUR	05	A	Overmold Cable	10m	PUR
PXPPVC12RAF05ACL150PVC	05	A	Overmold Cable	15m	PVC
PXPTPU12RAF05ACL150PUR	05	A	Overmold Cable	15m	PUR
PXPPVC12RAF08ACL010PVC	08	A	Overmold Cable	1m	PVC
PXPTPU12RAF08ACL010PUR	08	A	Overmold Cable	1m	PUR
PXPPVC12RAF08ACL020PVC	08	A	Overmold Cable	2m	PVC
PXPTPU12RAF08ACL020PUR	08	A	Overmold Cable	2m	PUR
PXPPVC12RAF08ACL030PVC	08	A	Overmold Cable	3m	PVC
PXPTPU12RAF08ACL030PUR	08	A	Overmold Cable	3m	PUR
PXPPVC12RAF08ACL050PVC	08	A	Overmold Cable	5m	PVC
PXPTPU12RAF08ACL050PUR	08	A	Overmold Cable	5m	PUR
PXPPVC12RAF08ACL100PVC	08	A	Overmold Cable	10m	PVC
PXPTPU12RAF08ACL100PUR	08	A	Overmold Cable	10m	PUR
PXPPVC12RAF08ACL150PVC	08	A	Overmold Cable	15m	PVC
PXPTPU12RAF08ACL150PUR	08	A	Overmold Cable	15m	PUR
PXPPVC12RAF12ACL010PVC	12	A	Overmold Cable	1m	PVC
PXPTPU12RAF12ACL010PUR	12	A	Overmold Cable	1m	PUR
PXPPVC12RAF12ACL020PVC	12	A	Overmold Cable	2m	PVC
PXPTPU12RAF12ACL020PUR	12	A	Overmold Cable	2m	PUR
PXPPVC12RAF12ACL030PVC	12	A	Overmold Cable	3m	PVC
PXPTPU12RAF12ACL030PUR	12	A	Overmold Cable	3m	PUR
PXPPVC12RAF12ACL050PVC	12	A	Overmold Cable	5m	PVC
PXPTPU12RAF12ACL050PUR	12	A	Overmold Cable	5m	PUR
PXPPVC12RAF12ACL100PVC	12	A	Overmold Cable	10m	PVC
PXPTPU12RAF12ACL100PUR	12	A	Overmold Cable	10m	PUR
PXPPVC12RAF12ACL150PVC	12	A	Overmold Cable	15m	PVC
PXPTPU12RAF12ACL150PUR	12	A	Overmold Cable	15m	PUR

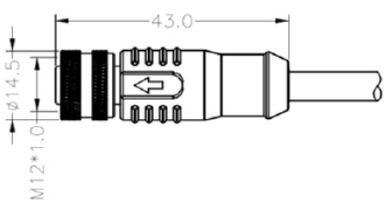
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PXPTPU12RAF05BCL020PUR	05	B	Overmold Cable	2m	PUR
PXPPVC12RAF05BCL030PVC	05	B	Overmold Cable	3m	PVC
PXPTPU12RAF05BCL030PUR	05	B	Overmold Cable	3m	PUR
PXPPVC12RAF05BCL050PVC	05	B	Overmold Cable	5m	PVC
PXPTPU12RAF05BCL050PUR	05	B	Overmold Cable	5m	PUR
PXPPVC12RAF05BCL100PVC	05	B	Overmold Cable	10m	PVC
PXPTPU12RAF05BCL100PUR	05	B	Overmold Cable	10m	PUR
PXPPVC12RAF05BCL150PVC	05	B	Overmold Cable	15m	PVC
PXPTPU12RAF05BCL150PUR	05	B	Overmold Cable	15m	PUR
PXPPVC12RAF04DCL010PVC	04	D	Overmold Cable	1m	PVC
PXPTPU12RAF04DCL010PUR	04	D	Overmold Cable	1m	PUR
PXPPVC12RAF04DCL020PVC	04	D	Overmold Cable	2m	PVC
PXPTPU12RAF04DCL020PUR	04	D	Overmold Cable	2m	PUR
PXPPVC12RAF04DCL030PVC	04	D	Overmold Cable	3m	PVC
PXPTPU12RAF04DCL030PUR	04	D	Overmold Cable	3m	PUR
PXPPVC12RAF04DCL050PVC	04	D	Overmold Cable	5m	PVC
PXPTPU12RAF04DCL050PUR	04	D	Overmold Cable	5m	PUR
PXPPVC12RAF04DCL100PVC	04	D	Overmold Cable	10m	PVC
PXPTPU12RAF04DCL100PUR	04	D	Overmold Cable	10m	PUR
PXPPVC12RAF04DCL150PVC	04	D	Overmold Cable	15m	PVC
PXPTPU12RAF04DCL150PUR	04	D	Overmold Cable	15m	PUR
PXPPNP12RAF04ACL010PVC	04	A	Overmold Cable	1m	PVC
PXPPNP12RAF04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPPNP12RAF04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPPNP12RAF04ACL100PVC	04	A	Overmold Cable	10m	PVC

M12 Flex Body Female



PXPTPU12FBF
PXPPVC12FBF

- 3, 4, 5, 8 & 12 Contacts
- 1, 2, 3, 5, 10 & 15m cable options
- Overmold Flex Body
- Mates with Inline Body & panel mount connectors
- Nickel plating rotating locking threaded collar



Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPPVC12FBF03ACL010PVC	03	A	Overmold Cable	1m	PVC
PXPTPU12FBF03ACL010PUR	03	A	Overmold Cable	1m	PUR
PXPPVC12FBF03ACL020PVC	03	A	Overmold Cable	2m	PVC
PXPTPU12FBF03ACL020PUR	03	A	Overmold Cable	2m	PUR
PXPPVC12FBF03ACL030PVC	03	A	Overmold Cable	3m	PVC
PXPTPU12FBF03ACL030PUR	03	A	Overmold Cable	3m	PUR
PXPPVC12FBF03ACL050PVC	03	A	Overmold Cable	5m	PVC
PXPTPU12FBF03ACL050PUR	03	A	Overmold Cable	5m	PUR
PXPPVC12FBF03ACL100PVC	03	A	Overmold Cable	10m	PVC
PXPTPU12FBF03ACL100PUR	03	A	Overmold Cable	10m	PUR
PXPPVC12FBF03ACL150PVC	03	A	Overmold Cable	15m	PVC
PXPTPU12FBF03ACL150PUR	03	A	Overmold Cable	15m	PUR
PXPPVC12FBF04ACL010PVC	04	A	Overmold Cable	1m	PVC
PXPTPU12FBF04ACL010PUR	04	A	Overmold Cable	1m	PUR
PXPPVC12FBF04ACL020PVC	04	A	Overmold Cable	2m	PVC
PXPTPU12FBF04ACL020PUR	04	A	Overmold Cable	2m	PUR
PXPPVC12FBF04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPTPU12FBF04ACL030PUR	04	A	Overmold Cable	3m	PUR
PXPPVC12FBF04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPTPU12FBF04ACL050PUR	04	A	Overmold Cable	5m	PUR
PXPPVC12FBF04ACL100PVC	04	A	Overmold Cable	10m	PVC
PXPTPU12FBF04ACL100PUR	04	A	Overmold Cable	10m	PUR
PXPPVC12FBF04ACL150PVC	04	A	Overmold Cable	15m	PVC
PXPTPU12FBF04ACL150PUR	04	A	Overmold Cable	15m	PUR
PXPPVC12FBF05ACL010PVC	05	A	Overmold Cable	1m	PVC
PXPTPU12FBF05ACL010PUR	05	A	Overmold Cable	1m	PUR
PXPPVC12FBF05ACL020PVC	05	A	Overmold Cable	2m	PVC
PXPTPU12FBF05ACL020PUR	05	A	Overmold Cable	2m	PUR
PXPPVC12FBF05ACL030PVC	05	A	Overmold Cable	3m	PVC
PXPTPU12FBF05ACL030PUR	05	A	Overmold Cable	3m	PUR
PXPPVC12FBF05ACL050PVC	05	A	Overmold Cable	5m	PVC
PXPTPU12FBF05ACL050PUR	05	A	Overmold Cable	5m	PUR
PXPPVC12FBF05ACL100PVC	05	A	Overmold Cable	10m	PVC

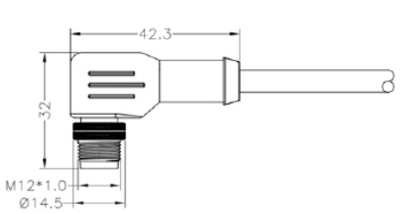
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PXPTPU12FBF05ACL150PUR	05	A	Overmold Cable	15m	PUR
PXPPVC12FBF08ACL010PVC	08	A	Overmold Cable	1m	PVC
PXPTPU12FBF08ACL010PUR	08	A	Overmold Cable	1m	PUR
PXPPVC12FBF08ACL020PVC	08	A	Overmold Cable	2m	PVC
PXPTPU12FBF08ACL020PUR	08	A	Overmold Cable	2m	PUR
PXPPVC12FBF08ACL030PVC	08	A	Overmold Cable	3m	PVC
PXPTPU12FBF08ACL030PUR	08	A	Overmold Cable	3m	PUR
PXPPVC12FBF08ACL050PVC	08	A	Overmold Cable	5m	PVC
PXPTPU12FBF08ACL050PUR	08	A	Overmold Cable	5m	PUR
PXPPVC12FBF08ACL100PVC	08	A	Overmold Cable	10m	PVC
PXPTPU12FBF08ACL100PUR	08	A	Overmold Cable	10m	PUR
PXPPVC12FBF08ACL150PVC	08	A	Overmold Cable	15m	PVC
PXPTPU12FBF08ACL150PUR	08	A	Overmold Cable	15m	PUR
PXPPVC12FBF12ACL010PVC	12	A	Overmold Cable	1m	PVC
PXPTPU12FBF12ACL010PUR	12	A	Overmold Cable	1m	PUR
PXPPVC12FBF12ACL020PVC	12	A	Overmold Cable	2m	PVC
PXPTPU12FBF12ACL020PUR	12	A	Overmold Cable	2m	PUR
PXPPVC12FBF12ACL030PVC	12	A	Overmold Cable	3m	PVC
PXPTPU12FBF12ACL030PUR	12	A	Overmold Cable	3m	PUR
PXPPVC12FBF12ACL050PVC	12	A	Overmold Cable	5m	PVC
PXPTPU12FBF12ACL050PUR	12	A	Overmold Cable	5m	PUR
PXPPVC12FBF12ACL100PVC	12	A	Overmold Cable	10m	PVC
PXPTPU12FBF12ACL100PUR	12	A	Overmold Cable	10m	PUR
PXPPVC12FBF12ACL150PVC	12	A	Overmold Cable	15m	PVC
PXPTPU12FBF12ACL150PUR	12	A	Overmold Cable	15m	PUR
PXPPVC12FBF05BCL010PVC	05	B	Overmold Cable	1m	PVC
PXPTPU12FBF05BCL010PUR	05	B	Overmold Cable	1m	PUR
PXPPVC12FBF05BCL020PVC	05	B	Overmold Cable	2m	PVC
PXPTPU12FBF05BCL020PUR	05	B	Overmold Cable	2m	PUR
PXPPVC12FBF05BCL030PVC	05	B	Overmold Cable	3m	PVC
PXPTPU12FBF05BCL030PUR	05	B	Overmold Cable	3m	PUR
PXPPVC12FBF05BCL050PVC	05	B	Overmold Cable	5m	PVC
PXPTPU12FBF05BCL050PUR	05	B	Overmold Cable	5m	PUR
PXPPVC12FBF05BCL100PVC	05	B	Overmold Cable	10m	PVC
PXPTPU12FBF05BCL100PUR	05	B	Overmold Cable	10m	PUR
PXPPVC12FBF05BCL150PVC	05	B	Overmold Cable	15m	PVC
PXPTPU12FBF05BCL150PUR	05	B	Overmold Cable	15m	PUR
PXPPVC12FBF04DCL010PVC	04	D	Overmold Cable	1m	PVC
PXPTPU12FBF04DCL010PUR	04	D	Overmold Cable	1m	PUR
PXPPVC12FBF04DCL020PVC	04	D	Overmold Cable	2m	PVC
PXPTPU12FBF04DCL020PUR	04	D	Overmold Cable	2m	PUR
PXPPVC12FBF04DCL030PVC	04	D	Overmold Cable	3m	PVC
PXPTPU12FBF04DCL030PUR	04	D	Overmold Cable	3m	PUR
PXPPVC12FBF04DCL050PVC	04	D	Overmold Cable	5m	PVC
PXPTPU12FBF04DCL050PUR	04	D	Overmold Cable	5m	PUR
PXPPVC12FBF04DCL100PVC	04	D	Overmold Cable	10m	PVC
PXPTPU12FBF04DCL100PUR	04	D	Overmold Cable	10m	PUR
PXPPVC12FBF04DCL150PVC	04	D	Overmold Cable	15m	PVC
PXPTPU12FBF04DCL150PUR	04	D	Overmold Cable	15m	PUR
PXPTPU12FBF04TCL010PUR	05	L	Overmold Cable	1m	PUR
PXPTPU12FBF04SCL010PUR	04	S	Overmold Cable	1m	PUR
PXPTPU12FBF05LCL010PUR	04	T	Overmold Cable	1m	PUR
PXPPNP12FBF04ACL010PVC	04	A	Overmold Cable	1m	PVC
PXPPNP12FBF04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPPNP12FBF04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPPNP12FBF04ACL100PVC	04	A	Overmold Cable	10m	PVC

M12 Right Angled Male



PXPTPU12RAM
PXPPVC12RAM

- 3, 4, 5, 8 & 12 Contacts
- 1, 2, 3, 5, 10 & 15m cable options
- Overmold Inline Body
- Mates with Flex Body & panel mount connectors
- Nickel plating rotating locking threaded collar



Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPPVC12RAM03ACL010PVC	03	A	Overmold Cable	1m	PVC
PXPTPU12RAM03ACL010PUR	03	A	Overmold Cable	1m	PUR
PXPPVC12RAM03ACL020PVC	03	A	Overmold Cable	2m	PVC
PXPTPU12RAM03ACL020PUR	03	A	Overmold Cable	2m	PUR
PXPPVC12RAM03ACL030PVC	03	A	Overmold Cable	3m	PVC
PXPTPU12RAM03ACL030PUR	03	A	Overmold Cable	3m	PUR
PXPPVC12RAM03ACL050PVC	03	A	Overmold Cable	5m	PVC

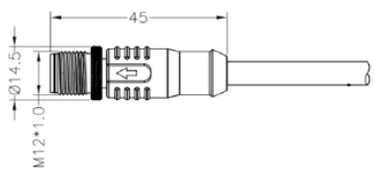
PXPTPU12RAM03ACL050PUR	03	A	Overmold Cable	5m	PUR
PXPPVC12RAM03ACL100PVC	03	A	Overmold Cable	10m	PVC
PXPTPU12RAM03ACL100PUR	03	A	Overmold Cable	10m	PUR
PXPPVC12RAM03ACL150PVC	03	A	Overmold Cable	15m	PVC
PXPTPU12RAM03ACL150PUR	03	A	Overmold Cable	15m	PUR
PXPPVC12RAM04ACL010PVC	04	A	Overmold Cable	1m	PVC
PXPTPU12RAM04ACL010PUR	04	A	Overmold Cable	1m	PUR
PXPPVC12RAM04ACL020PVC	04	A	Overmold Cable	2m	PVC
PXPTPU12RAM04ACL020PUR	04	A	Overmold Cable	2m	PUR
PXPPVC12RAM04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPTPU12RAM04ACL030PUR	04	A	Overmold Cable	3m	PUR
PXPPVC12RAM04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPTPU12RAM04ACL050PUR	04	A	Overmold Cable	5m	PUR
PXPPVC12RAM04ACL100PVC	04	A	Overmold Cable	10m	PVC
PXPTPU12RAM04ACL100PUR	04	A	Overmold Cable	10m	PUR
PXPPVC12RAM04ACL150PVC	04	A	Overmold Cable	15m	PVC
PXPTPU12RAM04ACL150PUR	04	A	Overmold Cable	15m	PUR
PXPPVC12RAM05ACL010PVC	05	A	Overmold Cable	1m	PVC
PXPTPU12RAM05ACL010PUR	05	A	Overmold Cable	1m	PUR
PXPPVC12RAM05ACL020PVC	05	A	Overmold Cable	2m	PVC
PXPTPU12RAM05ACL020PUR	05	A	Overmold Cable	2m	PUR
PXPPVC12RAM05ACL030PVC	05	A	Overmold Cable	3m	PVC
PXPTPU12RAM05ACL030PUR	05	A	Overmold Cable	3m	PUR
PXPPVC12RAM05ACL050PVC	05	A	Overmold Cable	5m	PVC
PXPTPU12RAM05ACL050PUR	05	A	Overmold Cable	5m	PUR
PXPPVC12RAM05ACL100PVC	05	A	Overmold Cable	10m	PVC
PXPTPU12RAM05ACL100PUR	05	A	Overmold Cable	10m	PUR
PXPPVC12RAM05ACL150PVC	05	A	Overmold Cable	15m	PVC
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PXPTPU12RAM08ACL010PUR	08	A	Overmold Cable	1m	PUR
PXPPVC12RAM08ACL020PVC	08	A	Overmold Cable	2m	PVC
PXPTPU12RAM08ACL020PUR	08	A	Overmold Cable	2m	PUR
PXPPVC12RAM08ACL030PVC	08	A	Overmold Cable	3m	PVC
PXPTPU12RAM08ACL030PUR	08	A	Overmold Cable	3m	PUR
PXPPVC12RAM08ACL050PVC	08	A	Overmold Cable	5m	PVC
PXPTPU12RAM08ACL050PUR	08	A	Overmold Cable	5m	PUR
PXPPVC12RAM08ACL100PVC	08	A	Overmold Cable	10m	PVC
PXPTPU12RAM08ACL100PUR	08	A	Overmold Cable	10m	PUR
PXPPVC12RAM08ACL150PVC	08	A	Overmold Cable	15m	PVC
PXPTPU12RAM08ACL150PUR	08	A	Overmold Cable	15m	PUR
PXPPVC12RAM12ACL010PVC	12	A	Overmold Cable	1m	PVC
PXPTPU12RAM12ACL010PUR	12	A	Overmold Cable	1m	PUR
PXPPVC12RAM12ACL020PVC	12	A	Overmold Cable	2m	PVC
PXPTPU12RAM12ACL020PUR	12	A	Overmold Cable	2m	PUR
PXPPVC12RAM12ACL030PVC	12	A	Overmold Cable	3m	PVC
PXPTPU12RAM12ACL030PUR	12	A	Overmold Cable	3m	PUR
PXPPVC12RAM12ACL050PVC	12	A	Overmold Cable	5m	PVC
PXPTPU12RAM12ACL050PUR	12	A	Overmold Cable	5m	PUR
PXPPVC12RAM12ACL100PVC	12	A	Overmold Cable	10m	PVC
PXPTPU12RAM12ACL100PUR	12	A	Overmold Cable	10m	PUR
PXPPVC12RAM12ACL150PVC	12	A	Overmold Cable	15m	PVC
PXPTPU12RAM12ACL150PUR	12	A	Overmold Cable	15m	PUR
PXPPVC12RAM05BCL010PVC	05	B	Overmold Cable	1m	PVC
PXPTPU12RAM05BCL010PUR	05	B	Overmold Cable	1m	PUR
PXPPVC12RAM05BCL020PVC	05	B	Overmold Cable	2m	PVC
PXPTPU12RAM05BCL020PUR	05	B	Overmold Cable	2m	PUR
PXPPVC12RAM05BCL030PVC	05	B	Overmold Cable	3m	PVC
PXPTPU12RAM05BCL030PUR	05	B	Overmold Cable	3m	PUR
PXPPVC12RAM05BCL050PVC	05	B	Overmold Cable	5m	PVC
PXPTPU12RAM05BCL050PUR	05	B	Overmold Cable	5m	PUR
PXPPVC12RAM05BCL100PVC	05	B	Overmold Cable	10m	PVC
PXPTPU12RAM05BCL100PUR	05	B	Overmold Cable	10m	PUR
PXPPVC12RAM05BCL150PVC	05	B	Overmold Cable	15m	PVC
PXPTPU12RAM05BCL150PUR	05	B	Overmold Cable	15m	PUR
PXPPVC12RAM04DCL010PVC	04	D	Overmold Cable	1m	PVC
PXPTPU12RAM04DCL010PUR	04	D	Overmold Cable	1m	PUR
PXPPVC12RAM04DCL020PVC	04	D	Overmold Cable	2m	PVC
PXPTPU12RAM04DCL020PUR	04	D	Overmold Cable	2m	PUR
PXPPVC12RAM04DCL030PVC	04	D	Overmold Cable	3m	PVC
PXPTPU12RAM04DCL030PUR	04	D	Overmold Cable	3m	PUR
PXPPVC12RAM04DCL050PVC	04	D	Overmold Cable	5m	PVC
PXPTPU12RAM04DCL050PUR	04	D	Overmold Cable	5m	PUR
PXPPVC12RAM04DCL100PVC	04	D	Overmold Cable	10m	PVC
PXPTPU12RAM04DCL100PUR	04	D	Overmold Cable	10m	PUR
PXPPVC12RAM04DCL150PVC	04	D	Overmold Cable	15m	PVC
PXPTPU12RAM04DCL150PUR	04	D	Overmold Cable	15m	PUR

M12 Inline Body Male



PXPTPU12FIM
PXPPVC12FIM

- 3, 4, 5, 8 & 12 Contacts
- 1, 2, 3, 5, 10 & 15m cable options
- Overmold Inline Body
- Mates with Flex Body & panel mount connectors
- Nickel plating rotating locking threaded collar



Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPPVC12FIM03ACL010PVC	03	A	Overmold Cable	1m	PVC
PXPTPU12FIM03ACL010PUR	03	A	Overmold Cable	1m	PUR
PXPPVC12FIM03ACL020PVC	03	A	Overmold Cable	2m	PVC
PXPTPU12FIM03ACL020PUR	03	A	Overmold Cable	2m	PUR
PXPPVC12FIM03ACL030PVC	03	A	Overmold Cable	3m	PVC
PXPTPU12FIM03ACL030PUR	03	A	Overmold Cable	3m	PUR
PXPPVC12FIM03ACL050PVC	03	A	Overmold Cable	5m	PVC
PXPTPU12FIM03ACL050PUR	03	A	Overmold Cable	5m	PUR
PXPPVC12FIM03ACL100PVC	03	A	Overmold Cable	10m	PVC
PXPTPU12FIM03ACL100PUR	03	A	Overmold Cable	10m	PUR
PXPPVC12FIM03ACL150PVC	03	A	Overmold Cable	15m	PVC
PXPTPU12FIM03ACL150PUR	03	A	Overmold Cable	15m	PUR
PXPPVC12FIM04ACL010PVC	04	A	Overmold Cable	1m	PVC
PXPTPU12FIM04ACL010PUR	04	A	Overmold Cable	1m	PUR
PXPPVC12FIM04ACL020PVC	04	A	Overmold Cable	2m	PVC
PXPTPU12FIM04ACL020PUR	04	A	Overmold Cable	2m	PUR
PXPPVC12FIM04ACL030PVC	04	A	Overmold Cable	3m	PVC
PXPTPU12FIM04ACL030PUR	04	A	Overmold Cable	3m	PUR
PXPPVC12FIM04ACL050PVC	04	A	Overmold Cable	5m	PVC
PXPTPU12FIM04ACL050PUR	04	A	Overmold Cable	5m	PUR
PXPPVC12FIM04ACL100PVC	04	A	Overmold Cable	10m	PVC
PXPTPU12FIM04ACL100PUR	04	A	Overmold Cable	10m	PUR
PXPPVC12FIM04ACL150PVC	04	A	Overmold Cable	15m	PVC
PXPTPU12FIM04ACL150PUR	04	A	Overmold Cable	15m	PUR
PXPPVC12FIM05ACL010PVC	05	A	Overmold Cable	1m	PVC
PXPTPU12FIM05ACL010PUR	05	A	Overmold Cable	1m	PUR
PXPPVC12FIM05ACL020PVC	05	A	Overmold Cable	2m	PVC
PXPTPU12FIM05ACL020PUR	05	A	Overmold Cable	2m	PUR
PXPPVC12FIM05ACL030PVC	05	A	Overmold Cable	3m	PVC
PXPTPU12FIM05ACL030PUR	05	A	Overmold Cable	3m	PUR
PXPPVC12FIM05ACL050PVC	05	A	Overmold Cable	5m	PVC
PXPTPU12FIM05ACL050PUR	05	A	Overmold Cable	5m	PUR
PXPPVC12FIM05ACL100PVC	05	A	Overmold Cable	10m	PVC
PXPTPU12FIM05ACL100PUR	05	A	Overmold Cable	10m	PUR
PXPPVC12FIM05ACL150PVC	05	A	Overmold Cable	15m	PVC
PXPTPU12FIM05ACL150PUR	05	A	Overmold Cable	15m	PUR
PXPPVC12FIM08ACL010PVC	08	A	Overmold Cable	1m	PVC
PXPTPU12FIM08ACL010PUR	08	A	Overmold Cable	1m	PUR
PXPPVC12FIM08ACL020PVC	08	A	Overmold Cable	2m	PVC
PXPTPU12FIM08ACL020PUR	08	A	Overmold Cable	2m	PUR
PXPPVC12FIM08ACL030PVC	08	A	Overmold Cable	3m	PVC
PXPTPU12FIM08ACL030PUR	08	A	Overmold Cable	3m	PUR
PXPPVC12FIM08ACL050PVC	08	A	Overmold Cable	5m	PVC
PXPTPU12FIM08ACL050PUR	08	A	Overmold Cable	5m	PUR
PXPPVC12FIM08ACL100PVC	08	A	Overmold Cable	10m	PVC
PXPTPU12FIM08ACL100PUR	08	A	Overmold Cable	10m	PUR
PXPPVC12FIM08ACL150PVC	08	A	Overmold Cable	15m	PVC
PXPTPU12FIM08ACL150PUR	08	A	Overmold Cable	15m	PUR
PXPPVC12FIM12ACL010PVC	12	A	Overmold Cable	1m	PVC
PXPTPU12FIM12ACL010PUR	12	A	Overmold Cable	1m	PUR
PXPPVC12FIM12ACL020PVC	12	A	Overmold Cable	2m	PVC
PXPTPU12FIM12ACL020PUR	12	A	Overmold Cable	2m	PUR
PXPPVC12FIM12ACL030PVC	12	A	Overmold Cable	3m	PVC
PXPTPU12FIM12ACL030PUR	12	A	Overmold Cable	3m	PUR
PXPPVC12FIM12ACL050PVC	12	A	Overmold Cable	5m	PVC
PXPTPU12FIM12ACL050PUR	12	A	Overmold Cable	5m	PUR
PXPPVC12FIM12ACL100PVC	12	A	Overmold Cable	10m	PVC
PXPTPU12FIM12ACL100PUR	12	A	Overmold Cable	10m	PUR
PXPPVC12FIM12ACL150PVC	12	A	Overmold Cable	15m	PVC
PXPTPU12FIM12ACL150PUR	12	A	Overmold Cable	15m	PUR

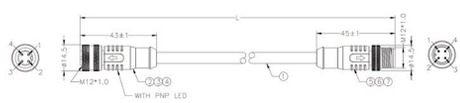
PXPPVC12FIM05BCL010PVC	05	B	Overmold Cable	1m	PVC
PXPTPU12FIM05BCL010PUR	05	B	Overmold Cable	1m	PUR
PXPPVC12FIM05BCL020PVC	05	B	Overmold Cable	2m	PVC
PXPTPU12FIM05BCL020PUR	05	B	Overmold Cable	2m	PUR
PXPPVC12FIM05BCL030PVC	05	B	Overmold Cable	3m	PVC
PXPTPU12FIM05BCL030PUR	05	B	Overmold Cable	3m	PUR
PXPPVC12FIM05BCL050PVC	05	B	Overmold Cable	5m	PVC
PXPTPU12FIM05BCL050PUR	05	B	Overmold Cable	5m	PUR
PXPPVC12FIM05BCL100PVC	05	B	Overmold Cable	10m	PVC
PXPTPU12FIM05BCL100PUR	05	B	Overmold Cable	10m	PUR
PXPPVC12FIM05BCL150PVC	05	B	Overmold Cable	15m	PVC
PXPTPU12FIM05BCL150PUR	05	B	Overmold Cable	15m	PUR
PXPPVC12FIM04DCL010PVC	04	D	Overmold Cable	1m	PVC
PXPTPU12FIM04DCL010PUR	04	D	Overmold Cable	1m	PUR
PXPPVC12FIM04DCL020PVC	04	D	Overmold Cable	2m	PVC
PXPTPU12FIM04DCL020PUR	04	D	Overmold Cable	2m	PUR
PXPPVC12FIM04DCL030PVC	04	D	Overmold Cable	3m	PVC
PXPTPU12FIM04DCL030PUR	04	D	Overmold Cable	3m	PUR
PXPPVC12FIM04DCL050PVC	04	D	Overmold Cable	5m	PVC
PXPTPU12FIM04DCL050PUR	04	D	Overmold Cable	5m	PUR
PXPPVC12FIM04DCL100PVC	04	D	Overmold Cable	10m	PVC
PXPTPU12FIM04DCL100PUR	04	D	Overmold Cable	10m	PUR
PXPPVC12FIM04DCL150PVC	04	D	Overmold Cable	15m	PVC
PXPTPU12FIM04DCL150PUR	04	D	Overmold Cable	15m	PUR
PXPTPU12FIM05LCL010PUR	05	L	Overmold Cable	1m	PUR
PXPTPU12FIM04SCL010PUR	04	S	Overmold Cable	1m	PUR
PXPTPU12FIM04TCL010PUR	04	T	Overmold Cable	1m	PUR

M12 Flex Body To Inline



PXPPNP12FBF

- 4 Contacts
- 0.3, 0.6, 1 & 2m cable options
- Overmold Inline Body to Inline
- Mates with Flex Body & panel mount connectors
- Nickel plating rotating locking threaded collar



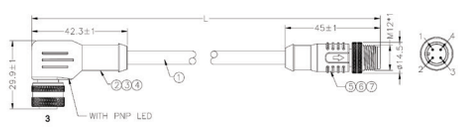
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPPNP12FBF04AFI003PUR	04	A	Inline	0.3m	PUR
PXPPNP12FBF04AFI006PUR	04	A	Inline	0.6m	PUR
PXPPNP12FBF04AFI010PUR	04	A	Inline	1m	PUR
PXPPNP12FBF04AFI020PUR	04	A	Inline	2m	PUR

M12 Right Angle To Inline



PXPPNP12RAF

- 4 Contacts
- 0.3, 0.6, 1 & 2m cable options
- Overmold Inline Body to Inline
- Mates with Flex Body & panel mount connectors
- Nickel plating rotating locking threaded collar



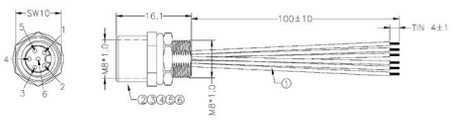
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPNPN12RAF04AFI003PUR	04	A	Inline	0.3m	PUR
PXPNPN12RAF04AFI006PUR	04	A	Inline	0.6m	PUR
PXPNPN12RAF04AFI010PUR	04	A	Inline	1m	PUR
PXPNPN12RAF04AFI020PUR	04	A	Inline	2m	PUR

M12 Front & Rear Panel Mount Flying Leads



PXMBNI12RPM
PXMBNI12RPF
PXMBNI12FPF
PXMBNI12FPM

- 4, 5 & 17 Contacts
- 0.1 & 0.2m cable options
- Overmold Inline Body
- Mates with Flex Body



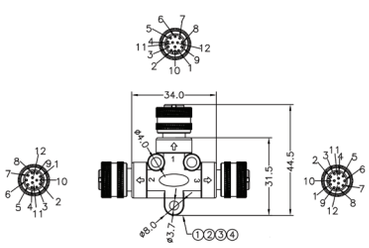
Part Number	Front or Rear	Contacts	Code	Termination	Lead Length	Mounting Nut
PXMBNI12FPM17AFLM12001	Front	17	A	Flying Lead	0.1m	M12
PXMBNI12FPF17AFLPG9001	Front	17	A	Flying Lead	0.1m	PG9
PXMBNI12FPM17AFLPG9001	Front	17	A	Flying Lead	0.1m	PG9
PXMBNI12FPF17AFLM16001	Front	17	A	Flying Lead	0.1m	M16
PXMBNI12FPM17AFLM16001	Front	17	A	Flying Lead	0.1m	M16
PXMBNI12RPM17AFLM12001	Rear	17	A	Flying Lead	0.1m	M12
PXMBNI12RPF17AFLPG9001	Rear	17	A	Flying Lead	0.1m	PG9
PXMBNI12RPM17AFLPG9001	Rear	17	A	Flying Lead	0.1m	PG9
PXMBNI12RPF17AFLM16001	Rear	17	A	Flying Lead	0.1m	M16
PXMBNI12RPM17AFLM16001	Rear	17	A	Flying Lead	0.1m	M16
PXMBNI12RPM05LFLM16001	Rear	5	L	Flying Lead	0.1m	M16
PXMBNI12RPF05LFLM16001	Rear	5	L	Flying Lead	0.1m	M16
PXMBNI12RPM04SFLM16002	Rear	4	S	Flying Lead	0.2m	M16
PXMBNI12RPF04SFLM16002	Rear	4	S	Flying Lead	0.2m	M16
PXMBNI12RPM04TFLM16001	Rear	4	T	Flying Lead	0.1m	M16
PXMBNI12RPF04TFLM16001	Rear	4	T	Flying Lead	0.1m	M16

M12 T-Splitters



PXPPVC12TS

- 4, 5, 8 & 12 Contacts
- Mates with Flex Body & panel mount connectors



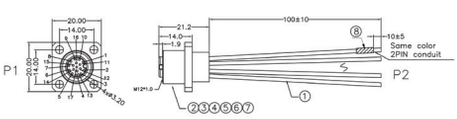
Part Number	Contacts	Code	Termination
PXPPVC12TSMM04AFIIFI	4	A	Male-Male-Male
PXPPVC12TSMM05AFIIFI	5	A	Male-Male-Male
PXPPVC12TSMM08AFIIFI	8	A	Male-Male-Male
PXPPVC12TSMM12AFIIFI	12	A	Male-Male-Male
PXPPVC12TSFM04AFBIFB	4	A	Female-Female-Male
PXPPVC12TSFM05AFBIFB	5	A	Female-Female-Male
PXPPVC12TSFM08AFBIFB	8	A	Female-Female-Male
PXPPVC12TSFM12AFBIFB	12	A	Female-Female-Male
PXPPVC12TSFF04AFBBFB	4	A	Female-Female-Female
PXPPVC12TSFF05AFBBFB	5	A	Female-Female-Female
PXPPVC12TSFF08AFBBFB	8	A	Female-Female-Female
PXPPVC12TSFF12AFBBFB	12	A	Female-Female-Female

M12 Fixed Flange



PXMBNI12FL

- 17 Contacts
- 0.1m cable options
- Mates with Flex Body



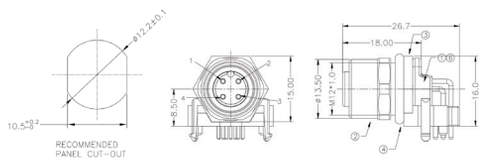
Part Number	Contacts	Code	Termination	Lead Length	Mounting
PXMBNI12FLF17AFLFFL001	17	A	Flying Lead	0.1m	Fixed Flange
PXMBNI12FLM17AFLFFL001	17	A	Flying Lead	0.1m	Fixed Flange

M12 Right Angle Rear Panel Mount



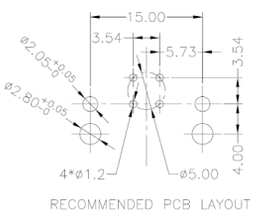
PXMBNI12RA

- 4, 5, 8 & 12 Contacts
- Mates with Flex Body
- PCB Termination

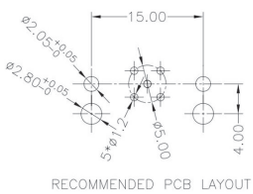


Part Number	Contacts	Code	Type	Termination	Mounting Nut
PXMBNI12RAF04APCM12	4	A	Female	PCB Terminal	M12
PXMBNI12RAF05APCM12	5	A	Female	PCB Terminal	M12
PXMBNI12RAF08APCM12	8	A	Female	PCB Terminal	M12
PXMBNI12RAF12APCM12	12	A	Female	PCB Terminal	M12
PXMBNI12RAM04APCM12	4	A	Male	PCB Terminal	M12
PXMBNI12RAM05APCM12	5	A	Male	PCB Terminal	M12
PXMBNI12RAM08APCM12	8	A	Male	PCB Terminal	M12
PXMBNI12RAM12APCM12	12	A	Male	PCB Terminal	M12

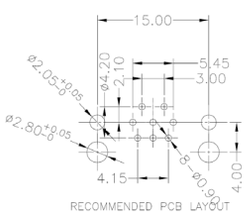
PCB Contact Layouts:



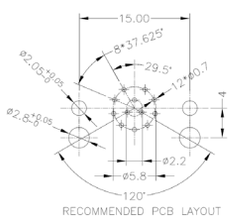
4 Contact PCB Layout



5 Contact PCB Layout



8 Contact PCB Layout



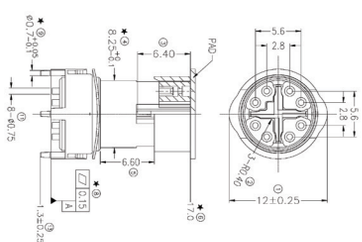
12 Contact PCB Layout

M12 SMT Connectors



PXPLCP12SM

- 4, 5, 8 & 12 Contacts
- Male and Female options
- PCB Termination



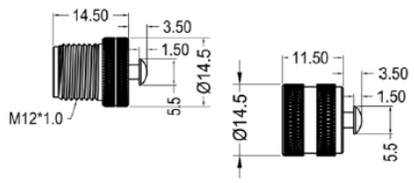
Part Number	Male-Male or Male-Female	Contacts	Code	Termination
PXPLCP12SMM04APC	Male-Male	4	A	PCB Terminal
PXPLCP12SMM05APC	Male-Male	5	A	PCB Terminal
PXPLCP12SMM08APC	Male-Male	8	A	PCB Terminal
PXPLCP12SMM12APC	Male-Male	12	A	PCB Terminal
PXPLCP12SMF05APC	Male-Female	5	A	PCB Terminal
PXPLCP12SMF08APC	Male-Female	8	A	PCB Terminal

PA66 M12 Sealing Cap



PXPPAM12

- Sealing caps to maintain IP67 rating
- Male & Female versions



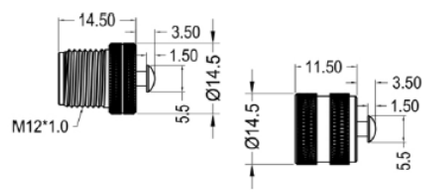
Part Number	Series	Type	Material
PXPPAM12CAM	M12	Male	PA66
PXPPAM12CAF	M12	Female	PA66

Brass - Nickel Plating M12 Sealing Cap



PXMBNI12

- Sealing caps to maintain IP67 rating
- Male & Female versions



Part Number	Series	Type	Material
PXMBNI12CAM	M12	Male	Brass - Nickel Plating
PXMBNI12CAF	M12	Female	Brass - Nickel Plating

Electrical

No. Contacts:	3	4	5	6	8	12	17
Current Rating:	4A	4A	4A	1.5A	2A	1.5A	1.5A
Voltage Rating (ac/dc) :	250V	250V	60V	30V	30V	30V	30V

Contact Resistance: <10mΩ

Insulation Resistance: >100MΩ

AC Breakdown Voltage:

3 Contacts	1.5KV
4 Contacts	1.5KV
5 Contacts	1.5KV
6 Contacts	1.5KV
8 Contacts	0.8KV
12 Contacts	0.8KV
17 Contacts	0.8KV

Operating Temp Range: -25°C to 80°C

Mechanical:

Locking Mechanism:	Screw coupling
Rating:	IP67
Contact Accomodation:	
3, 4, 5, 6, 8, 12 & 17 Contacts	28AWG-22AWG
Cable Acceptance:	4.6 - 8.0mm Dia
Contacts:	Terminations:
3, 4, 5, 6, 8	PCB / Screw / Solder / Cable
12, 17	PCB / Solder / Cable
Mechanical Operation:	500 & 100 mating cycle options available
Largest diameter over coupling ring:	20.0mm

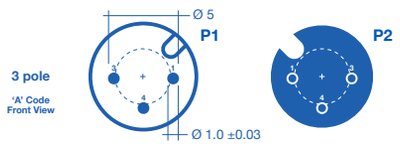
	Panel Mounting Connectors:	Cable Connectors:	Flex & Inline Connectors:
Body Material:	Nickel Plated Brass	TPU / PVC / LCP	Nickel Plated Brass / PA66
Coupling Nut Material:	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass/Silver Plated Aluminum
Colour:	Grey	Black	Black or Grey
Plug Contacts Material:	Brass, Gold plating	Brass, Gold plating	Brass, Gold plating
Socket Contacts Material:	Phosphor Bronze, Gold plating	Phosphor Bronze, Gold plating	Phosphor Bronze, Gold plating
O Rings & Gaskets Materials:	Viton	Viton	Viton
RoHS:	Compliant	Compliant	Compliant

XXX	XXX	XX	XX	X or XX	XX	X	XX
Series	**Material**	**Series Size**	**Body Style**	**Orientation**	**Contacts**	**Code**	**Termination**
PXM (Metal) PXP (Plastic)	BNI = Brass Nickel PAM = Polyamide TPU = Overmold for PUR PVC = Overmold for PVC PNP = + Signal LED NPN = - Signal LED LCP = Liquid Crystal Polymer	12	FB = Flex Body FI = Inline Body RP = Rear Panel Mounting RA = Right Angle SC = Sealing Cap FP = Front Panel Mounting TS = T-Splitter FL = Flange SM = Surface Mount	M = Male F = Female T-Splitters = MM FM FF	03 04 05 06 08 12 17	A B D L S T P	ST = Screw Terminal PC = PCB CL = Cable SC = Solder FI = Inline FL = Flying Lead T-Splitter = FIIFI FBIFB FBBFB

XXX	XXX	XXX
Mounting / Gland Nut Thread	**Lead Length**	**Cable Material**
PG9 PG7 M12 M16 FFL = Fixed Flange	001 = 100mm 002 = 200mm 003 = 300mm 010 = 1m 030 = 3m 050 = 5m 100 = 10m 150 = 15m	PUR PVC

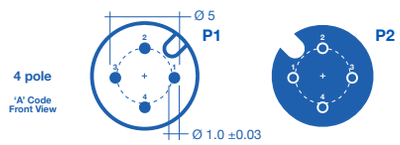
Contact Diagrams:

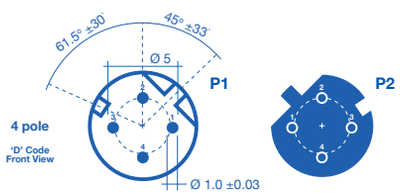
XXXXXXXXXXM03XXXXXXXXXXXX
XXXXXXXXXXF03XXXXXXXXXXXX



P1	PAIR	WIRE COLOUR	P2
1		BROWN	1
3		BLUE	3
4		BLACK	4

XXXXXXXXXXM04XXXXXXXXXXXX
XXXXXXXXXXF04XXXXXXXXXXXX





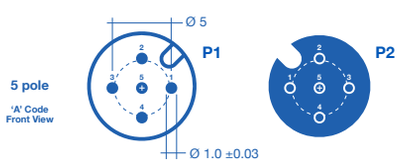
4 Plugs A-CODED

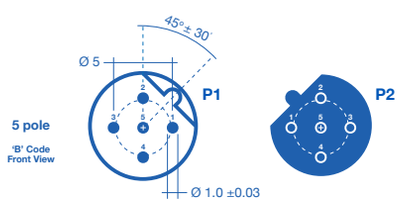
P1	PAIR	WIRE COLOUR	P2
1		BROWN	1
2		WHITE	2
3		BLUE	3
4		BLACK	4

4 Plugs D-CODED

P1	PAIR	WIRE COLOUR	P2
1		YELLOW	1
2		WHITE	2
3		ORANGE	3
4		BLUE	4

XXXXXXXXXXM05XXXXXXXXXXXX
XXXXXXXXXXF05XXXXXXXXXXXX





5 Plugs A-CODED

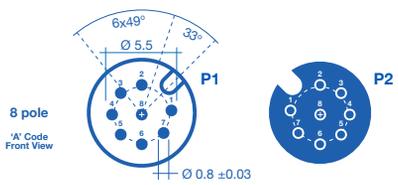
P1	PAIR	WIRE COLOUR	P2
1		BROWN	1
2		WHITE	2
3		BLUE	3
4		BLACK	4
5		GREY	5

5 Plugs B-CODED

P1	PAIR	WIRE COLOUR	P2
1		BROWN	1
2		WHITE	2
3		BLUE	3
4		BLACK	4
5		GREY	5

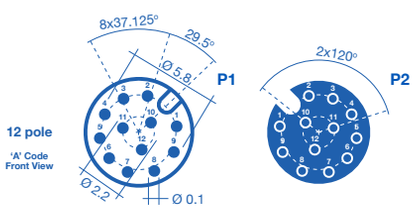
Contact Diagrams:

XXXXXXXXXXM08XXXXXXXXXXXX
XXXXXXXXXXF08XXXXXXXXXXXX



P1	PAIR	WIRE COLOUR	P2
1		WHITE	1
2		BROWN	2
3		GREEN	3
4		YELLOW	4
5		GREY	5
6		PINK	6
7		BLUE	7
8		RED	8

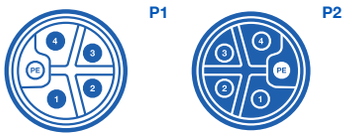
XXXXXXXXXXM12XXXXXXXXXXXX
XXXXXXXXXXF12XXXXXXXXXXXX



P1	PAIR	WIRE COLOUR	P2
1		BROWN	1
2		BLUE	2
3		WHITE	3
4		GREEN	4
5		PINK	5
6		YELLOW	6
7		BLACK	7
8		GREY	8
9		RED	9
10		VIOLET	10
11		GREY / PINK	11
12		RED / BLUE	12

Contact Diagrams:

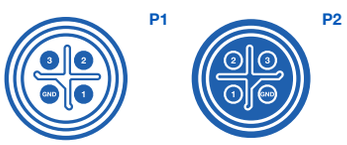
XXXXXXXXXXM05XXXXXXXXXXXX
XXXXXXXXXXF05XXXXXXXXXXXX



5 Plugs L-CODED

P1	PAIR	COLOUR	P2
1	——	BROWN	1
2	——	WHITE	2
3	——	BLUE	3
4	——	BLACK	4
GND	——	GREY	GND

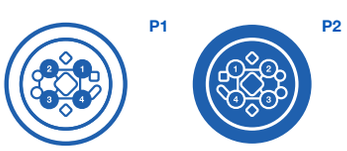
XXXXXXXXXXM04XXXXXXXXXXXX
XXXXXXXXXXF04XXXXXXXXXXXX



4 Plugs S-CODED

P1	PAIR	COLOUR	P2
1	——	BROWN	1
2	——	WHITE	2
3	——	BLUE	3
GND	——	BLACK	GND

XXXXXXXXXXM04XXXXXXXXXXXX
XXXXXXXXXXF04XXXXXXXXXXXX



4 Plugs T-CODED

P1	PAIR	COLOUR	P2
1	——	BROWN	1
2	——	WHITE	2
3	——	BLUE	3
4	——	BLACK	4

With a high degree of mechanical and electrical stability, Bulgin's M12 X Coding connectors provide a cost effective and flexible connectivity solution for onsite installations, helping to decrease downtime in process control, manufacturing automation and industrial instrumentation applications.

Key features:

- Reliable industry standard (EN 61076-2-109) screw locking mechanism
- Field installable, cable and panel mount options
- Maximum Data Signaling Rate to 10Gbit/s
- -25 °C `to 85 °C Temperature Range
- Plastic and metal options variants
- Cat6a cables
- Ethernet, Profinet Application
- 800V Rated Impulse Voltage
- IP67 degree of protection
- 0.5A Rated Current
- M12 X Coding

M12 Series coding options:
(Full Contact Diagrams Page 244)



X-Coding

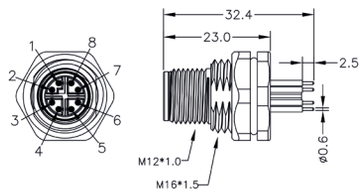


M12 X Code Rear Panel Mounting Male



PXMBNI12RPM08XPCM16

- 8 Contacts
- PCB termination
- Mates with flex body connectors



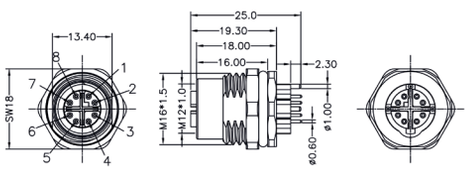
Part Number	Contacts	Code	Termination	Mounting Nut
PXMBNI12RPM08XPCM16	08	X	PCB Terminal	M16 Mounting / Gland Nut Thread

M12 X Code Rear Panel Mounting Female



PXMBNI12RPF08XPCM16

- 8 Contacts
- PCB termination
- Mates with Inline body connectors



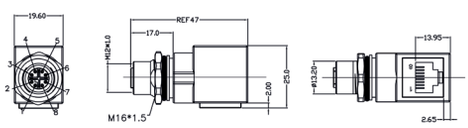
Part Number	Contacts	Code	Termination	Mounting Nut
PXMBNI12RPF08XPCM16	08	X	PCB Terminal	M16 Mounting / Gland Nut Thread

M12 X Code Rear Panel Mounting Female - RJ45



PXMBNI12RAF08XRJM16

- 8 Contacts
- Solder termination
- Metal flex body
- Mates with Inline body connectors



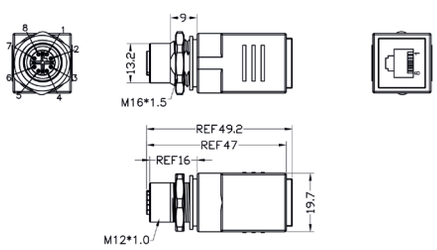
Part Number	Contacts	Code	Termination	Mounting Nut
PXMBNI12RAF08XRJM16	08	X	RJ45	M16 Mounting / Gland Nut Thread

M12 X Code Rear Panel Mounting Female - RJ45



PXMBNI12RPM08XRJM16

- 8 Contacts
- Solder termination
- Metal flex body
- Mates with Inline body connectors



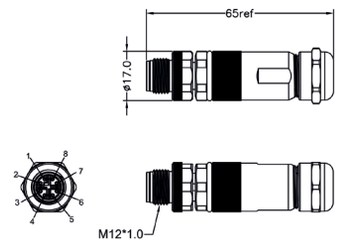
Part Number	Contacts	Code	Termination	Mounting Nut
PXMBNI12RPM08XRJM16	08	X	RJ45	M16 Mounting / Gland Nut Threa

Nickel Plated M12 X Code Inline Body Male



PXMBNI12FIM08XSCPG9

- 8 Contacts
- Solder termination
- Metal Inline body
- Mates with flex body and panel mount connectors



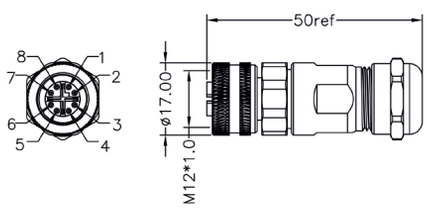
Part Number	Contacts	Code	Termination	Mounting Nut
PXMBNI12FIM08XSCPG9	08	X	Solder Terminal	PG9 Mounting / Gland Nut Thread

Nickel Plating M12 X Code Flex Body Female



PXMBNI12FBF08XSCPG9

- 8 Contacts
- Solder termination
- Metal Flex Body
- Mates with Inline Body and panel mount connectors



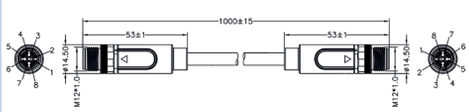
Part Number	Contacts	Code	Termination	Mounting Nut
PXMBNI12FBF08XSCPG9	08	X	Solder Terminal	PG9 Mounting / Gland Nut Threa

Inline to Inline Overmould Cable



PXPTPU12FIM08XFI010PU

- 8 Contacts
- 1, 2, 3, 5 & 10m cable options
- TPU flex body overmold
- PU jacket cable



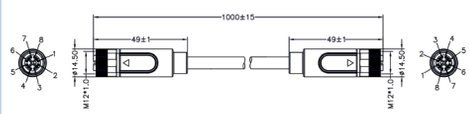
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPTPU12FIM08XFI010PU	08	X	Overmold Cable	1m	PU
PXPTPU12FIM08XFI020PU	08	X	Overmold Cable	2m	PU
PXPTPU12FIM08XFI030PU	08	X	Overmold Cable	3m	PU
PXPTPU12FIM08XFI050PU	08	X	Overmold Cable	5m	PU
PXPTPU12FIM08XFI100PU	08	X	Overmold Cable	10m	PU

Flex Body to Flex Body Overmould Cable



PXPTPU12FBF08XFB010PU

- 8 Contacts
- 1, 2, 3, 5 & 10m cable options
- TPU flex body overmold
- PU jacket cable



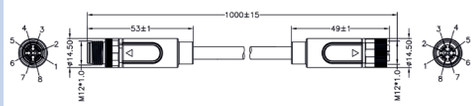
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPTPU12FBF08XFB010PU	08	X	Overmold Cable	1m	PU
PXPTPU12FBF08XFB020PU	08	X	Overmold Cable	2m	PU
PXPTPU12FBF08XFB030PU	08	X	Overmold Cable	3m	PU
PXPTPU12FBF08XFB050PU	08	X	Overmold Cable	5m	PU
PXPTPU12FBF08XFB100PU	08	X	Overmold Cable	10m	PU

Inline to Flex Body Overmould Cable



PXPTPU12FIM08XFB010PU

- 8 Contacts
- 1, 2, 3, 5 & 10m cable options
- TPU flex body overmold
- PU jacket cable



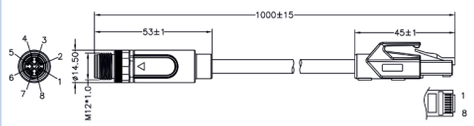
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPTPU12FIM08XFB010PU	08	X	Overmold Cable	1m	PU
PXPTPU12FIM08XFB020PU	08	X	Overmold Cable	2m	PU
PXPTPU12FIM08XFB030PU	08	X	Overmold Cable	3m	PU
PXPTPU12FIM08XFB050PU	08	X	Overmold Cable	5m	PU
PXPTPU12FIM08XFB100PU	08	X	Overmold Cable	10m	PU

Inline to RJ45 Overmould Cable



PXPTPU12FIM08XRJ010PU

- 8 Contacts
- 1, 2, 3, 5 & 10m cable options
- TPU flex body overmold
- PU jacket cable



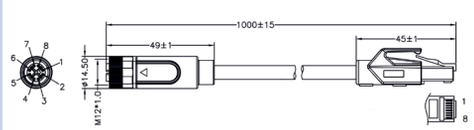
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPTPU12FIM08XRJ010PU	08	X	Overmold Cable	1m	PU
PXPTPU12FIM08XRJ020PU	08	X	Overmold Cable	2m	PU
PXPTPU12FIM08XRJ030PU	08	X	Overmold Cable	3m	PU
PXPTPU12FIM08XRJ050PU	08	X	Overmold Cable	5m	PU
PXPTPU12FIM08XRJ100PU	08	X	Overmold Cable	10m	PU

Flex body to RJ45 Overmould Cable



PXPTPU12FBF08XRJ010PU

- 8 Contacts
- 1, 2, 3, 5 & 10m cable options
- TPU flex body overmold
- PU jacket cable



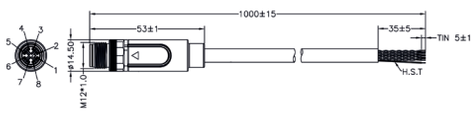
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPTPU12FBF08XRJ010PU	08	X	Overmold Cable	1m	PU
PXPTPU12FBF08XRJ020PU	08	X	Overmold Cable	2m	PU
PXPTPU12FBF08XRJ030PU	08	X	Overmold Cable	3m	PU
PXPTPU12FBF08XRJ050PU	08	X	Overmold Cable	5m	PU
PXPTPU12FBF08XRJ100PU	08	X	Overmold Cable	10m	PU

Inline Overmould Cable



PXPTPU12FIM08XCL010PU

- 8 Contacts
- 1, 2, 3, 5 & 10m cable options
- TPU flex body overmold
- PU jacket cable



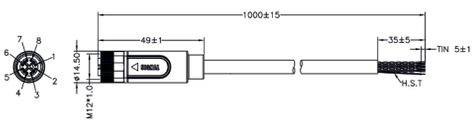
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPTPU12FIM08XCL010PU	08	X	Overmold Cable	1m	PU
PXPTPU12FIM08XCL020PU	08	X	Overmold Cable	2m	PU
PXPTPU12FIM08XCL030PU	08	X	Overmold Cable	3m	PU
PXPTPU12FIM08XCL050PU	08	X	Overmold Cable	5m	PU
PXPTPU12FIM08XCL100PU	08	X	Overmold Cable	10m	PU

Inline Overmould Cable



PXPTPU12FBF08XCL010PU

- 8 Contacts
- 1, 2, 3, 5 & 10m cable options
- TPU flex body overmold
- PU jacket cable



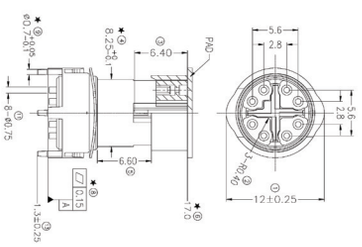
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
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PXPTPU12FBF08XCL020PU	08	X	Overmold Cable	2m	PU
PXPTPU12FBF08XCL030PU	08	X	Overmold Cable	3m	PU
PXPTPU12FBF08XCL050PU	08	X	Overmold Cable	5m	PU
PXPTPU12FBF08XCL100PU	08	X	Overmold Cable	10m	PU

M12 SMT Connectors



PXPLCP12SM

- 4, 5, 8 & 12 Contacts
- Male and Female options
- PCB Termination



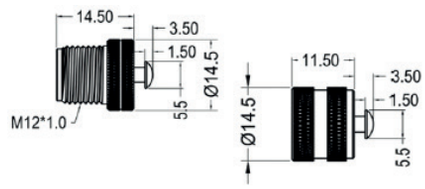
Part Number	Contacts	Code	Termination
PXPLCP12SMF08XPC	8	X	PCB Terminal

PA66 M12 Sealing Cap



PXPPAM12

- Sealing caps to maintain IP67 rating
- Male & Female versions



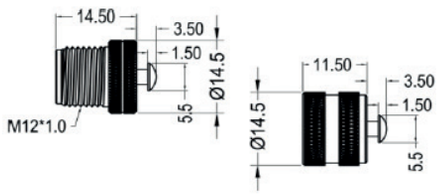
Part Number	Series	Type	Material
PXPPAM12CAM	M12	Male	PA66
PXPPAM12CAF	M12	Female	PA66

Brass - Nickel Plating M12 Sealing Cap



PXMBNI12

- Sealing caps to maintain IP67 rating
- Male & Female versions



Part Number	Series	Type	Material
PXMBNI12CAM	M12	Male	Brass - Nickel Plating
PXMBNI12CAF	M12	Female	Brass - Nickel Plating

Electrical

No. Contacts:	8
Current Rating:	0.5A
Voltage Rating (ac/dc) :	48V
Contact Resistance:	<5mΩ
Insulation Resistance:	>100MΩ
Operating Temp Range:	-25°C to 85°C

Mechanical:

Locking Mechanism:	Screw coupling
Sealing:	IP67
Contact Accomodation:	
8 Contacts	26AWG x 4P + AEB
Cable:	6.2mm Dia
Contacts:	Terminations:
8 Contacts	PCB / Solder / Cable
Mechanical Operation:	500 mating cycles
Largest diameter over coupling ring:	20.0mm

	Panel Mount:	Cable Connectors:	Flex & Inline Connectors:
Body Material:	Nickel Plated Brass	TPU / LCP	Nickel Plated Brass
Coupling Nut Material:	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass
Colour:	Grey	Black	Grey
Plug Contacts Material:	Brass, Gold plating	Brass, Gold plating	Brass, Gold plating
Socket Contacts Material:	Phosphor Bronze, Gold plating	Phosphor Bronze, Gold plating	Phosphor Bronze, Gold plating
O Rings & Gaskets Materials:	Viton	Viton	Viton
RoHS:	Compliant	Compliant	Compliant

MX	XXX	XX	XX	X	XX	X	XX
Series	**Material**	**Series Size**	**Body Style**	**Orientation**	**Contacts**	**Code**	**Termination**
PXM PXP	BNI = Brass Nickel TPU = overmold for PUR LCP = Liquid Crystal Polymer	12	FB = Flex Body FI = Inline Body RP = Rear Panel Mounting RA = Right Angle	M = Male F = Female	08	X	PC = PCB CL = Cable SC = Solder RJ = RJ45 FB = FLEX BODY FI = Inline BODY

XXX	XXX	XXX
Mounting / Gland Nut Thread	**Lead Length**	**Cable Material**
PG9 M16	010 = 1m 020 = 2m 030 = 3m 050 = 5m 100 = 10m	PUR

Contact Diagrams:

PXMBNI12RPM08XPCM16
PXMBNI12FIM08XSCPG9

8 pins
X Code
Front View



PXMBNI12RPF08XPCM16
PXMBNI12FBF08XSCPG9

8 pins
X Code
Front View



PXMBNI12RAF08XRJM16
PXMBNI12RPM08XRJM16

8 pins
X Code
Front View





P1	PAIR	WIRE COLOUR	P2
1 2		WHITE / ORANGE	1 2
3 4		WHITE / GREEN	3 4
5 6		WHITE / BLUE	5 6
7 8		WHITE / BROWN	7 8

PXPTPU12FIM08XFI010PU

8 pins
X Code
Front View



8 pins
X Code
Front View



PXPTPU12FBF08XFB010PU

8 pins
X Code
Front View



8 pins
X Code
Front View



PXPTPU12FIM08XFB010PU

8 pins
X Code
Front View



8 pins
X Code
Front View



P1	PAIR	WIRE COLOUR	P2
1 2		WHITE / ORANGE	1 2
3 4		WHITE / GREEN	3 4
5 6		WHITE / BLUE	5 6
7 8		WHITE / BROWN	7 8
SHELL		BRAID	SHELL

PXPTPU12FIM08XRJ010PU

8 pins
X Code
Front View



RJ45

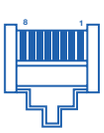


PXPTPU12FBF08XRJ010PU

8 pins
X Code
Front View



RJ45



P1	PAIR	WIRE COLOUR	PAIR	P2
1 2		WHITE / ORANGE ORANGE		1 2
3 4		WHITE / GREEN GREEN		3 6
7 8		WHITE / BLUE BLUE		5 4
5 6		WHITE / BROWN BROWN		7 8

PXPTPU12FIM08XCL010PU

8 pins
X Code
Front View



P2

TINNED WIRES

PXPTPU12FBF08XCL010PU

8 pins
X Code
Front View



P2

TINNED WIRES

P1	PAIR	WIRE COLOUR	P2
1 2		WHITE / ORANGE	
3 4		WHITE / GREEN	
5 6		WHITE / BLUE	OPEN
7 8		WHITE / BROWN	
SHELL		BRAID	

With a rugged metal housing and environmental protection rating of IP67 when mated, Bulgin's robust M16 circular DIN connector range is an ideal solution for ensuring that power and signal connections are not compromised in harsh environments and industrial applications.



Key features:

- Screw locking compliant with DIN EN 61076-2-106
- IP67 degree of protection
- Robust metal connector
- Excellent EMI shielding
- Contact variants from 3 - 12

M16 Series coding options:
(Full Contact Diagrams Page 249)



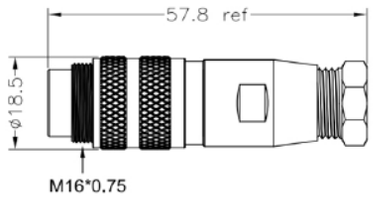
A-Coding

M16 Inline Body Male



PXMBNI16FIM

- 3, 4, 5, 6, 8 & 12 Contacts
- Solder termination
- Metal Inline Body
- Mates with Flex Body and panel mount connectors



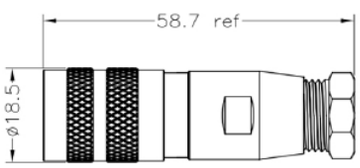
Part Number	Contacts	Code	Termination
PXMBNI16FIM03ASC	03	A	Solder Terminal
PXMBNI16FIM04ASC	04	A	Solder Terminal
PXMBNI16FIM05ASC	05	A	Solder Terminal
PXMBNI16FIM06ASC	06	A	Solder Terminal
PXMBNI16FIM08ASC	08	A	Solder Terminal
PXMBNI16FIM12ASC	12	A	Solder Terminal

M16 Flex Body Female



PXMBNI16FBF

- 3, 4, 5, 6, 8 & 12 Contacts
- Solder termination
- Metal Flex Body
- Mates with Inline Body and panel mount connectors



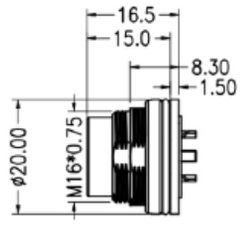
Part Number	Contacts	Code	Termination
PXMBNI16FBF03ASC	03	A	Solder Terminal
PXMBNI16FBF04ASC	04	A	Solder Terminal
PXMBNI16FBF05ASC	05	A	Solder Terminal
PXMBNI16FBF06ASC	06	A	Solder Terminal
PXMBNI16FBF08ASC	08	A	Solder Terminal
PXMBNI16FBF12ASC	12	A	Solder Terminal

M16 Rear Panel Mounting Male



PXMBNI16RPM

- 3, 4, 5, 6, 8 & 12 Contacts
- Solder termination
- Mates with Flex body connectors



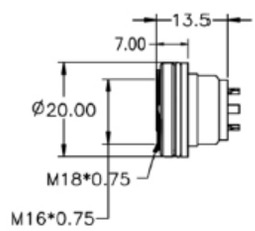
Part Number	Contacts	Code	Termination
PXMBNI16RPM03ASC	03	A	Solder Terminal
PXMBNI16RPM04ASC	04	A	Solder Terminal
PXMBNI16RPM05ASC	05	A	Solder Terminal
PXMBNI16RPM06ASC	06	A	Solder Terminal
PXMBNI16RPM08ASC	08	A	Solder Terminal
PXMBNI16RPM12ASC	12	A	Solder Terminal

M16 Rear Panel Mounting Female



PXMBNI16RPF

- 3, 4, 5, 6, 8 & 12 Contacts
- Solder termination
- Mates with Inline Body connectors



Part Number	Contacts	Code	Termination
PXMBNI16RPF03ASC	03	A	Solder Terminal
PXMBNI16RPF04ASC	04	A	Solder Terminal
PXMBNI16RPF05ASC	05	A	Solder Terminal
PXMBNI16RPF06ASC	06	A	Solder Terminal
PXMBNI16RPF08ASC	08	A	Solder Terminal
PXMBNI16RPF12ASC	12	A	Solder Terminal

Electrical

No. Contacts:	3	4	5	6	8	12
Current Rating:	7A	7A	6A	5A	5A	3A
Voltage Rating (ac/dc) :	250V	250V	250V	125V	60V	60V

Contact Resistance: <5mΩ 3, 4, 5, 6 and 8 Contacts
<3mΩ 12 Contacts

Insulation Resistance: >100^{3}MΩ

AC Breakdown Voltage:

3 Contacts	2.0KV
4 Contacts	2.0KV
5 Contacts	2.0KV
6 Contacts	1.5KV
8 Contacts	1.5KV
12 Contacts	1.5KV

Operating Temp Range: -25°C to 80°C

Mechanical:

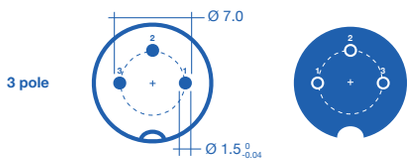
Locking Mechanism:	Screw coupling
Sealing:	IP67
Contact Accomodation:	
3, 4, 5, 6 and 8 Contacts 12 Contacts	20AWG 24 AWG
Cable Acceptance:	5.0 - 7.5mm Dia
Contacts:	Terminations:
	Solder
Mechanical Operation:	500 mating cycles
Diameter over coupling ring:	18.5mm

	Panel Mount:	Flex & Inline Connectors:
Body Material:	Nickel Plated Brass	Nickel Plated Brass
Coupling Nut Material:	Nickel Plated Brass	Nickel Plated Brass
Colour:	Grey	Grey
Plug Contacts Material:	Brass, Gold plating	Brass, Gold plating
Socket Contacts Material:	Phosphor Bronze, Gold plating	Phosphor Bronze, Gold plating
O Rings & Gaskets Materials:	Viton	Viton
RoHS:	Compliant	Compliant

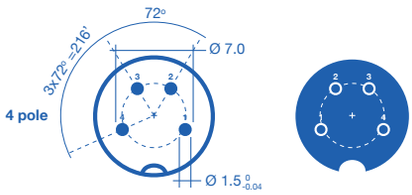
XXX	XXX	XX	XX	X	XX	X	XX	XXX
Series	**Material**	**Series Size**	**Body Style**	**Orientation**	**Contacts**	**Code**	**Termination**	**Mounting / Gland Nut Thread**
PXM	BNI = Brass Nickel	16	FB = Flex Body	M = Male	03	A	SC = Solder	PG9
			FI = Inline Body	F = Female	04			M16
			RP = Rear Panel Mounting		05			
					06			
					08			
					12			

Contact Diagrams (Front View 'A' Code):

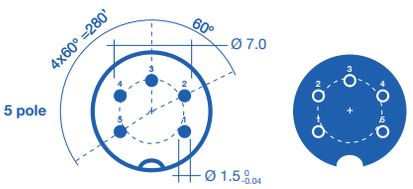
XXXXXXXXXXM03XXXXXX
XXXXXXXXXXF03XXXXXX



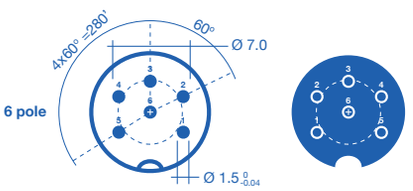
XXXXXXXXXXM04XXXXXX
XXXXXXXXXXF04XXXXXX



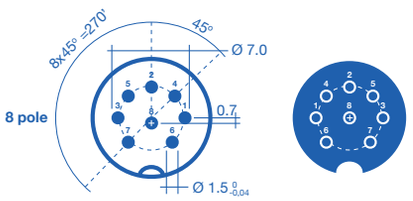
XXXXXXXXXXM05XXXXXX
XXXXXXXXXXF05XXXXXX



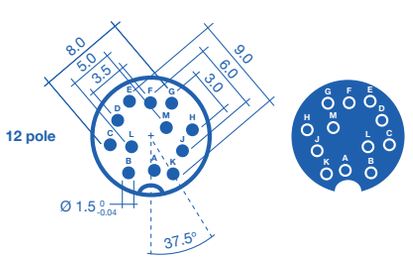
XXXXXXXXXXM06XXXXXX
XXXXXXXXXXF06XXXXXX



XXXXXXXXXXM08XXXXXX
XXXXXXXXXXF08XXXXXX



XXXXXXXXXXM12XXXXXX
XXXXXXXXXXF12XXXXXX



Typically used for providing high performance, reliable and robust connections in commercial and industrial automation applications, these IP67 rated signal and power connectors offer a high degree of protection against environmental factors such as water, dirt and moisture.

Bulgin's range of M23 Connectors includes field installable male and female connectors as well as front panel mount options from 12- to 19-Contacts in straight and right angled versions.



Key features:

- A-Coded
- Male and female variants, 12 or 19 Contacts
- Straight and angled configurations
- Robust metal housing
- IP67 protection rating (when mated)
- Voltages up to 200 V and currents up to 8 A

M23 Series coding options:
(Full Contact Diagrams Page 253)



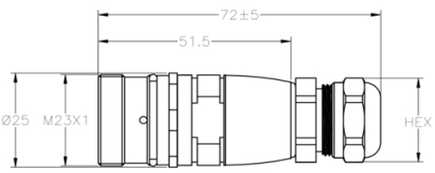
A-Coding

M23 Inline Body



PXMBNI23FIM

- Available in 12 & 19 Contacts
- Solder termination
- Metal Inline Body
- Mates with panel mount connectors



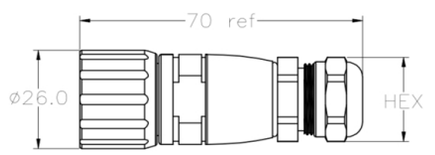
Part Number	Contacts	Code	Termination
PXMBNI23FIM12ASC	12	A	Screw Terminal
PXMBNI23FIM19ASC	19	A	Screw Terminal

M23 Flex Body Female



PXMBNI23FBF

- Available in 12 & 19 Contacts
- Solder termination
- Metal Flex Body
- Mates with panel mount connectors



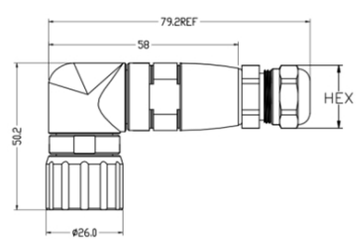
Part Number	Contacts	Code	Termination
PXMBNI23FBF12ASC	12	A	Screw Terminal
PXMBNI23FBF19ASC	19	A	Screw Terminal

M23 Right Angled Female



PXMBNI23RAF

- Available in 12 & 19 Contacts
- Solder termination
- Metal Right Angle Flex Body
- Mates with panel mount connectors



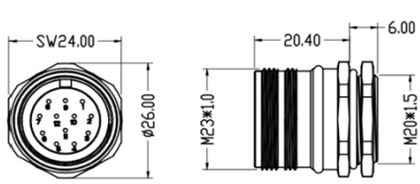
Part Number	Contacts	Code	Termination
PXMBNI23RAF12ASC	12	A	Screw Terminal
PXMBNI23RAF19ASC	19	A	Screw Terminal

M23 Front Panel Mounting Male



PXMBNI23FPM

- Available in 12 & 19 Contacts
- Solder termination
- Mates with Flex Body connectors



Part Number	Contacts	Code	Termination
PXMBNI23FPM12ASC	12	A	Screw Terminal
PXMBNI23FPM19ASC	19	A	Screw Terminal

Electrical

No. Contacts:	12	19
Current Rating:	8A	8A
Voltage Rating (ac/dc) :	200V	150V
Contact Resistance:		<3mΩ
Insulation Resistance:		>100^{3}MΩ
AC Breakdown Voltage:		
12 Contacts		1.5KV
19 Contacts		1.5KV
Operating Temp Range:		-25°C to 80°C

Mechanical:

Locking Mechanism:	Screw coupling
Sealing:	IP67
Contact Accommodation:	
12 Contacts	18 AWG
19 Contacts	17 AWG
Cable Acceptance:	6.0 - 8.0mm Dia
Contacts:	Terminations:
	Solder
Mechanical Operation:	500 mating cycles
Diameter over coupling ring:	26.0mm

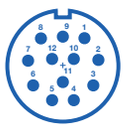
	Panel Mount:	Flex & Inline Connectors:
Body Material:	Nickel Plated Brass	Nickel Plated Brass
Coupling Nut Material:	Nickel Plated Brass	Nickel Plated Brass
Colour:	Grey	Grey
Plug Contacts Material:	Brass, Gold plating	Brass, Gold plating
Socket Contacts Material:	Phosphor Bronze, Gold plating	Phosphor Bronze, Gold plating
O Rings & Gaskets Materials:	Viton	Viton
RoHS:	Compliant	Compliant

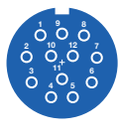
XXX	XXX	XX	XX	X	XX	X	XX
Series	**Material**	**Series Size**	**Body Style**	**Orientation**	**Contacts**	**Code**	**Termination**
PXM	BNI = Brass Nickel	23	FB = Flex Body	M = Male	12	A	SC = Solder
PXP			FI = Inline Body	F = Female	19		
			FP = Front Panel Mounting				
			RA = Right Angle				

Contact Diagrams (Front View 'A' Code):

XXXXXXXXXM12XXX
XXXXXXXXXF12XXX

12 pole

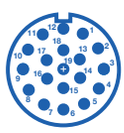


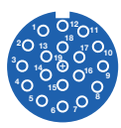


Contact Position	X	Y
1	3.60	4.30
2	5.55	1.00
3	4.90	-2.80
4	1.90	-5.30
5	-1.90	-5.30
6	-4.90	-2.80
7	-5.55	1.00
8	-3.60	4.30
9	0.00	4.50
10	1.90	1.00
11	0.00	-2.20
12	-1.90	1.00

XXXXXXXXXM19XXX
XXXXXXXXXF19XXX

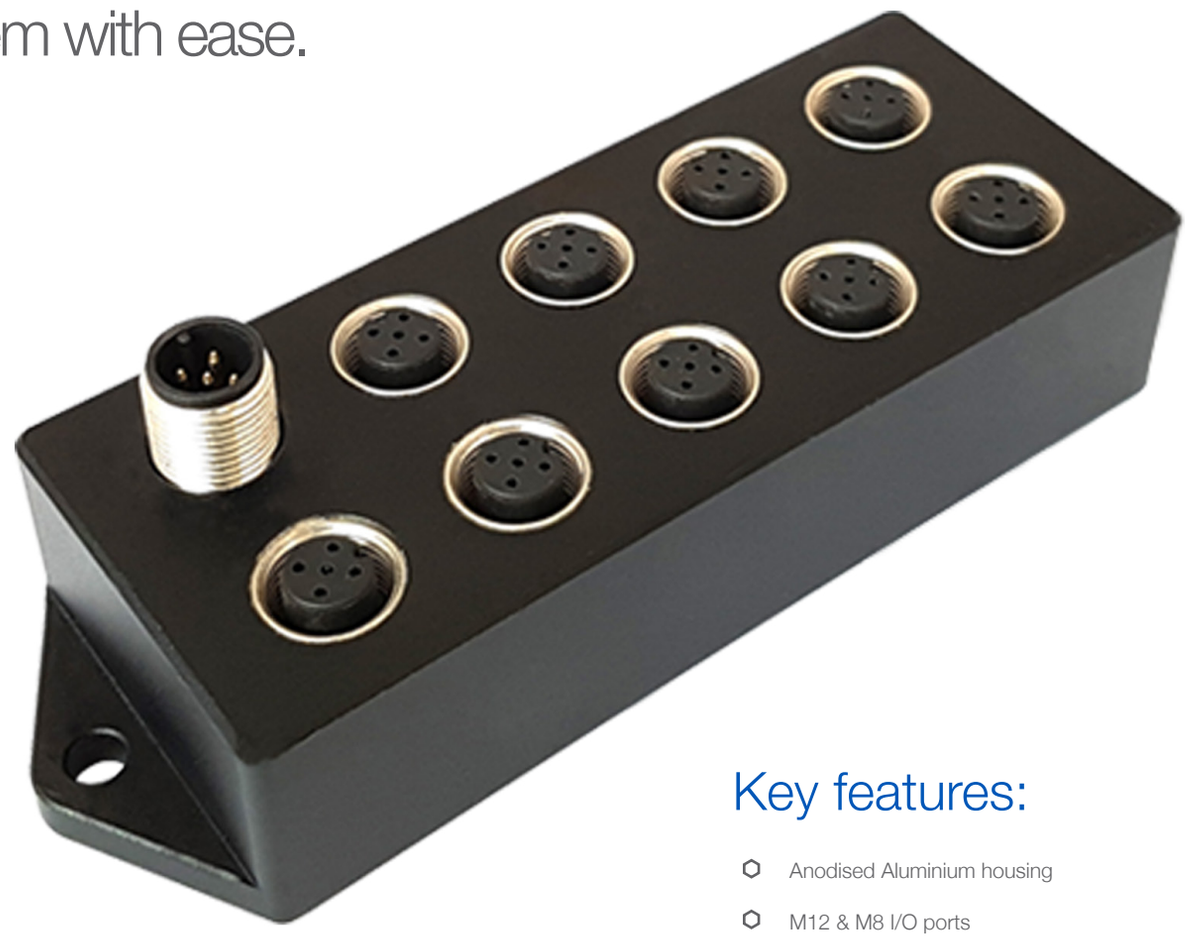
19 pole





Contact Position	X	Y
1	3.00	5.20
2	5.20	3.00
3	6.00	5.00
4	5.20	-3.00
5	3.00	-5.20
6	0.00	-6.00
7	-3.00	5.20
8	-5.20	-3.00
9	-6.00	0.00
10	-5.20	3.00
11	-3.00	5.20
12	0.00	6.00
13	2.75	1.60
14	2.75	-1.60
15	0.00	-3.00
16	-2.75	-1.60
17	-2.75	1.60
18	0.00	3.00
19	0.00	0.00

Passive distribution boxes provide a convenient and compact connectivity solution that can be installed quickly and easily in the field. They offer considerable cost saving benefits when compared to hard-wiring I/O connections due to their pre-wired connector slot configurations which enables numerous sensor and actuator signals to be transmitted back to a control system with ease.



Key features:

- Anodised Aluminium housing
- M12 & M8 I/O ports
- Available with or without LED indicators
- IP67 rated
- 5, 8, and 9 port configurations
- Operating Temp Range -25°C to 80°C



Bulgin's passive distribution boxes feature industry standard M12 and M8 I/O connection ports. With a compact design and robust aluminium housing that is IP67 sealed and fully potted; these distribution units offer high performance and protection against elements such as moisture, liquids and dirt in environmentally challenging applications.

The Benefits:

Save Time

With the need to hard wire I/O connections removed and variants coming equipped with identification labels and integrated LEDs, Bulgin's distribution boxes help to save on costs associated with installation, maintenance and repair time by making it easy and quick to troubleshoot connection faults.

Save Space

Distribution boxes save space in the field as they require less space than more conventional distribution systems due to their compact design. They take up far less space than loose wires and require fewer terminal blocks/boxes, making them the ideal solution for many machine requirements or automation systems.

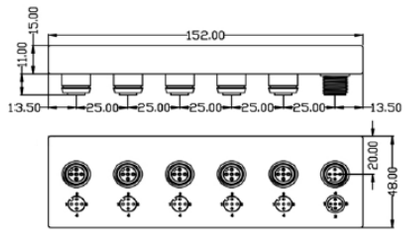
Save Money

By simplifying the wiring control system and eliminating the need for additional enclosures, distributor boxes can be installed quickly which saves time and costs. Their ability to reduce troubleshooting time also means that downtime can be significantly minimised in manufacturing, food-processing and industrial automation applications.



BOX1M1205MA05M1205F

- 5 outputs
- Sealed using sealing caps
- Anodised aluminium body
- Mates with Flex Body and Inline Connectors

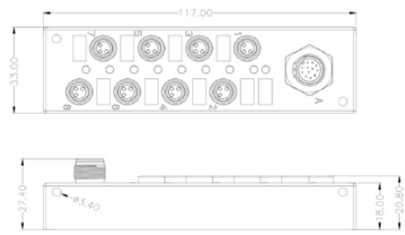


Part Number	Input Type	Input Contact Count	Output Ports	Output Type	Output Contact Count
BOX1M1205MA05M1205F	M12	5 Contacts	5 Ports	M12	5 Contacts



BOX1M1212MA08M803F

- 8 outputs
- Sealed using sealing caps
- Anodised aluminium body
- Mates with Flex Body and Inline Connectors

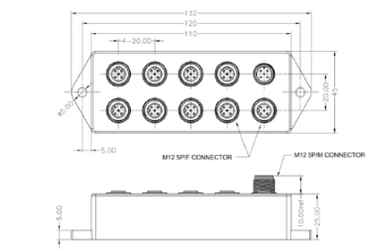


Part Number	Input Type	Input Contact Count	Output Ports	Output Type	Output Contact Count
BOX1M1212MA08M803F	M12	12 Contacts	8 Ports	M8	3 Contacts



BOX1M1205MA09M1205F

- 9 outputs
- Sealed using sealing caps
- Anodised aluminium body
- Mates with Flex Body and Inline Connectors



Part Number	Input Type	Input Contact Count	Output Ports	Output Type	Output Contact Count
BOX1M1205MA09M1205F	M12	5 Contacts	9 Ports	M12	5 Contacts

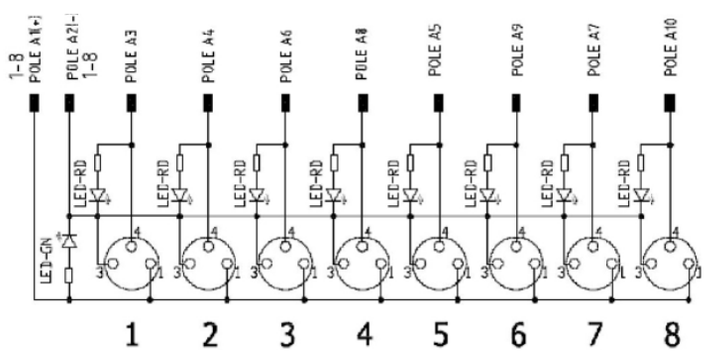
Specifications:

Locking mechanism:	Screw coupling
Sealing:	IP67
Operating Temp Range:	-25°C to 80°C

Box & Panel Mount:

Body Material:	Anodised Aluminium
Colour:	Black
Plug Contacts Material:	Brass, Gold plating
Socket Contacts Material:	Phosphor Bronze, Gold plating
RoHS:	Compliant

Wiring diagram for BOX1M1212MA08M803F



BOX	X	XX	XX	X	X	XX	XX	XX	X
Series	**Inputs**	**Input Series**	**Input Contacts**	**Orientation**	**Code**	**Outputs**	**Output Series**	**Output Contacts**	**Orientation**
Box	1	M12	05 12	M	A	05 08 09	M8 M12	03 05	F = Female

7/8" Series Circular Automation Connectors provide rugged and field-proven performance. They are available in a self-terminating variant with a screw terminal connection or as pre-assembled cable connectors with straight or right angled options.

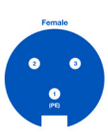
These connectors can be used in Automotive Industry, Construction, Agriculture, Marine, Mining, Forestry, and Recreational.



Key features:

- Available with 3, 4 & 5 Contacts
- Wire Gauge 16-20 AWG
- High degree of environmental protection - IP67 rated
- Available in Right-Angle, Flex Body and Front Panel Mount
- Secure & reliable screw-locking mechanism
- Insulation resistance 100 megohms minimum
- Accepts contact size 1.3 mm (up to 17 amps gold, up to 8 amps tin)
- Operating at temperatures -25°C to +85°C
- Voltage: 300V
- Robust PUR over-moulded cables

7/8" Series coding options:
(Full Contact Diagrams Page 66)



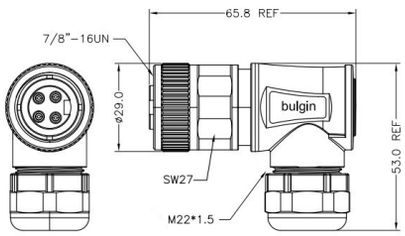
A-Coding

7/8"Right-Angled Female Connector



PXPTPU78RAF

- Available in 3, 4 & 5 Contacts
- Female housing
- Socket contacts
- Cable entry: 6 - 12mm
- Mates with Flex Body and Panel Mount connectors



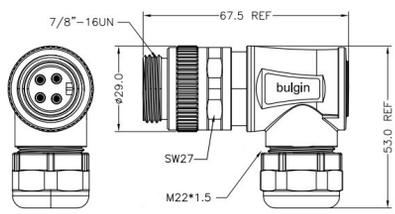
Part Number	Contacts	Code	Termination
PXPTPU78RAF03ASTM22	03	A	Screw
PXPTPU78RAF04ASTM22	04	A	Screw
PXPTPU78RAF05ASTM22	05	A	Screw

7/8" Right-Angled Male Connector



PXPTPU78RAM

- Available in 3, 4 & 5 Contacts
- Male housing
- Plug contacts
- Cable entry: 6 - 12mm
- Mates with Flex Body and Panel Mount connectors



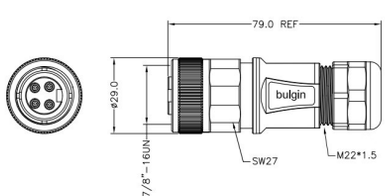
Part Number	Contacts	Code	Termination
PXPTPU78RAM03ASTM22	03	A	Screw
PXPTPU78RAM04ASTM22	04	A	Screw
PXPTPU78RAM05ASTM22	05	A	Screw

7/8" Flex Body Female Connector



PXPTPU78FBF

- Available in 3, 4 & 5 Contacts
- Female housing
- Socket contacts
- Cable entry: 6 - 12mm
- Mates with Right Angled and Panel Mount connectors



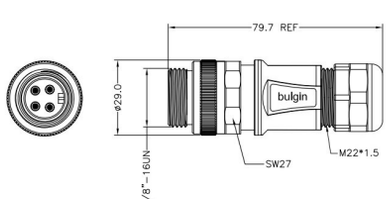
Part Number	Contacts	Code	Termination
PXPTPU78FBF03ASTM22	03	A	Screw
PXPTPU78FBF04ASTM22	04	A	Screw
PXPTPU78FBF05ASTM22	05	A	Screw

7/8" Flex Body Male Connector



PXPTPU78FIM

- Available in 3, 4 & 5 Contacts
- Male housing
- Plug contacts
- Cable entry: 6 - 12mm
- Mates with Right Angled and Panel Mount connectors



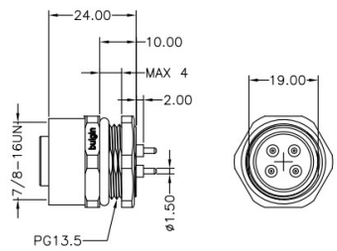
Part Number	Contacts	Code	Termination
PXPTPU78FIM03ASTM22	03	A	Screw
PXPTPU78FIM04ASTM22	04	A	Screw
PXPTPU78FIM05ASTM22	05	A	Screw

7/8" Front Panel Mounting Female Connector



PXMBNI78FPF

- Available in 3, 4 & 5 Contacts
- Female housing
- Socket contacts
- Mates with Right Angled and Flex body connectors



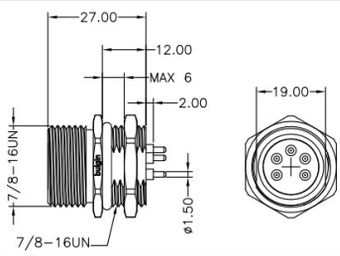
Part Number	Contacts	Code	Termination
PXMBNI78FPF03APCPG135	03	A	PCB
PXMBNI78FPF04APCPG135	04	A	PCB
PXMBNI78FPF05APCPG135	05	A	PCB

7/8" Front Panel Mounting Male Connector



PXMBNI78FPM

- Available in 3, 4 & 5 Contacts
- Male housing
- Plug contacts
- Mates with Right Angled and Flex body connectors



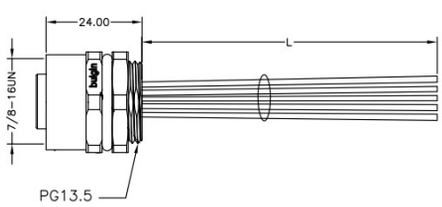
Part Number	Contacts	Code	Termination
PXMBNI78FPM03APC78	03	A	PCB
PXMBNI78FPM04APC78	04	A	PCB
PXMBNI78FPM05APC78	05	A	PCB

7/8" Front Panel Mounting Female Flying Leads



PXMBNI78FPF

- Available in 3, 4 & 5 Contacts
- Female housing
- Socket contacts
- Available in 0.1m, 0.2m & 0.5m cable
- Mates with Right Angled and Flex body connectors



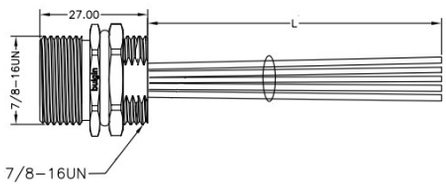
Part Number	Contacts	Code	Termination	Lead Length	Mounting Nut
PXMBNI78FPF03AFLPG135001	03	A	Flying Leads	0.1m	PG13.5
PXMBNI78FPF04AFLPG135001	04	A	Flying Leads	0.1m	PG13.5
PXMBNI78FPF05AFLPG135001	05	A	Flying Leads	0.1m	PG13.5
PXMBNI78FPF03AFLPG135002	03	A	Flying Leads	0.2m	PG13.5
PXMBNI78FPF04AFLPG135002	04	A	Flying Leads	0.2m	PG13.5
PXMBNI78FPF05AFLPG135002	05	A	Flying Leads	0.2m	PG13.5
PXMBNI78FPF03AFLPG135005	03	A	Flying Leads	0.5m	PG13.5
PXMBNI78FPF04AFLPG135005	04	A	Flying Leads	0.5m	PG13.5
PXMBNI78FPF05AFLPG135005	05	A	Flying Leads	0.5m	PG13.5

7/8" Front Panel Mounting Male Flying Leads



PXMBNI78FPM

- Available in 3, 4 & 5 Contacts
- Male housing
- Plug contacts
- Available in 0.1m, 0.2m & 0.5m cable
- Mates with Right Angled and Flex body connectors



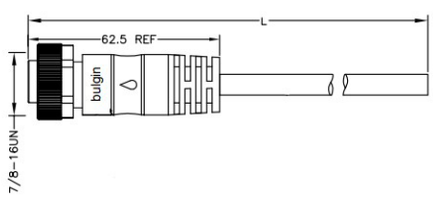
Part Number	Contacts	Code	Termination	Lead Length	Mounting Nut
PXMBNI78FPM03AFL78001	03	A	Flying Leads	0.1m	7/8"
PXMBNI78FPM04AFL78001	04	A	Flying Leads	0.1m	7/8"
PXMBNI78FPM05AFL78001	05	A	Flying Leads	0.1m	7/8"
PXMBNI78FPM03AFL78002	03	A	Flying Leads	0.2m	7/8"
PXMBNI78FPM04AFL78002	04	A	Flying Leads	0.2m	7/8"
PXMBNI78FPM05AFL78002	05	A	Flying Leads	0.2m	7/8"
PXMBNI78FPM03AFL78005	03	A	Flying Leads	0.5m	7/8"
PXMBNI78FPM04AFL78005	04	A	Flying Leads	0.5m	7/8"
PXMBNI78FPM05AFL78005	05	A	Flying Leads	0.5m	7/8"

7/8" Flex Body Female Cable Assembly



PXPTPU78FBF

- Available in 3, 4 & 5 Contacts
- Female housing
- Socket contacts
- Available in 1m, 2m & 5m cable
- Mates with Right Angled and Panel Mount connectors



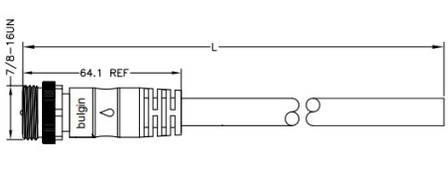
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPTPU78FBF03ACL010PUR	03	A	Overmould Cable	1m	PUR
PXPTPU78FBF04ACL010PUR	04	A	Overmould Cable	1m	PUR
PXPTPU78FBF05ACL010PUR	05	A	Overmould Cable	1m	PUR
PXPTPU78FBF03ACL020PUR	03	A	Overmould Cable	2m	PUR
PXPTPU78FBF04ACL020PUR	04	A	Overmould Cable	2m	PUR
PXPTPU78FBF05ACL020PUR	05	A	Overmould Cable	2m	PUR
PXPTPU78FBF03ACL050PUR	03	A	Overmould Cable	5m	PUR
PXPTPU78FBF04ACL050PUR	04	A	Overmould Cable	5m	PUR
PXPTPU78FBF05ACL050PUR	05	A	Overmould Cable	5m	PUR

7/8" Flex Body Male Cable Assembly



PXPTPU78FIM

- Available in 3, 4 & 5 Contacts
- Male housing
- Plug contacts
- Available in 1m, 2m & 5m cable
- Mates with Right Angled and Panel Mount connectors



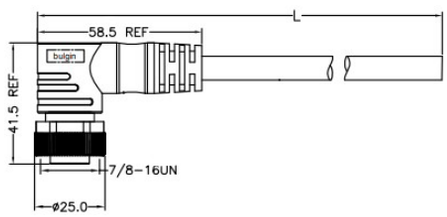
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPTPU78FIM03ACL010PUR	03	A	Overmould Cable	1m	PUR
PXPTPU78FIM04ACL010PUR	04	A	Overmould Cable	1m	PUR
PXPTPU78FIM05ACL010PUR	05	A	Overmould Cable	1m	PUR
PXPTPU78FIM03ACL020PUR	03	A	Overmould Cable	2m	PUR
PXPTPU78FIM04ACL020PUR	04	A	Overmould Cable	2m	PUR
PXPTPU78FIM05ACL020PUR	05	A	Overmould Cable	2m	PUR
PXPTPU78FIM03ACL050PUR	03	A	Overmould Cable	5m	PUR
PXPTPU78FIM04ACL050PUR	04	A	Overmould Cable	5m	PUR
PXPTPU78FIM05ACL050PUR	05	A	Overmould Cable	5m	PUR

7/8" Right-Angled Female Cable Assembly



PXPTPU78RAF

- Available in 3, 4 & 5 Contacts
- Female housing
- Socket contacts
- Available in 1m, 2m & 5m cable
- Mates with Flex Body and Panel Mount connectors



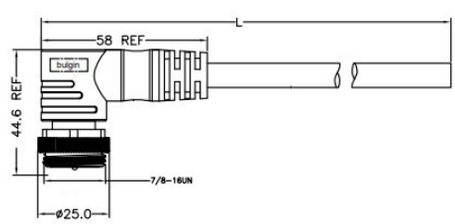
Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPTPU78RAF03ACL010PUR	03	A	Overmould Cable	1m	PUR
PXPTPU78RAF04ACL010PUR	04	A	Overmould Cable	1m	PUR
PXPTPU78RAF05ACL010PUR	05	A	Overmould Cable	1m	PUR
PXPTPU78RAF03ACL020PUR	03	A	Overmould Cable	2m	PUR
PXPTPU78RAF04ACL020PUR	04	A	Overmould Cable	2m	PUR
PXPTPU78RAF05ACL020PUR	05	A	Overmould Cable	2m	PUR
PXPTPU78RAF03ACL050PUR	03	A	Overmould Cable	5m	PUR
PXPTPU78RAF04ACL050PUR	04	A	Overmould Cable	5m	PUR
PXPTPU78RAF05ACL050PUR	05	A	Overmould Cable	5m	PUR

7/8" Right-Angled Male Cable Assembly



PXPTPU78RAM

- Available in 3, 4 & 5 Contacts
- Male housing
- Plug contacts
- Available in 1m, 2m & 5m cable
- Mates with Flex Body and Panel Mount connectors



Part Number	Contacts	Code	Termination	Lead Length	Cable Material
PXPTPU78RAM03ACL010PUR	03	A	Overmould Cable	1m	PUR
PXPTPU78RAM04ACL010PUR	04	A	Overmould Cable	1m	PUR
PXPTPU78RAM05ACL010PUR	05	A	Overmould Cable	1m	PUR
PXPTPU78RAM03ACL020PUR	03	A	Overmould Cable	2m	PUR
PXPTPU78RAM04ACL020PUR	04	A	Overmould Cable	2m	PUR
PXPTPU78RAM05ACL020PUR	05	A	Overmould Cable	2m	PUR
PXPTPU78RAM03ACL050PUR	03	A	Overmould Cable	5m	PUR
PXPTPU78RAM04ACL050PUR	04	A	Overmould Cable	5m	PUR
PXPTPU78RAM05ACL050PUR	05	A	Overmould Cable	5m	PUR

Electrical

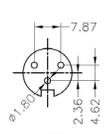
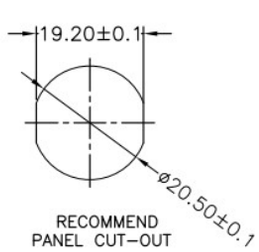
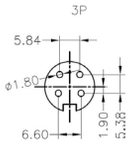
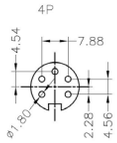
No. Contacts:	3	4	5
Current Rating:	12A	8A* or 9A	9A
	** 8A only for Flying Leads & Overmould Cable Assembly*		
Insulation Resistance:	>100MΩ		
Contact Resistance:	<10mΩ or <5mΩ (Front Panel Mounting Only)		
Voltage Rating (ac/dc) :	300V		
Operating Temp Range:	-25°C to +85°C		

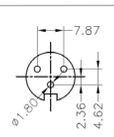
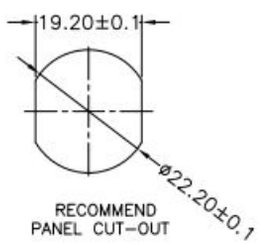
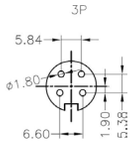
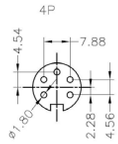
Mechanical:

Cycles:	>100
Locking Mechanism:	Screw Coupling
Torque:	0.8Nm (7/8" Plug-In Connector) & 0.4Nm (Screw Terminal)
Cross-Section Area:	Max 1.5mm²
Panel Mount Nut Torque:	2 - 2.5Nm
Termination:	Screw Terminals, PCB
Cable Entry:	6 - 12mm
Wire Gauge:	16 - 20AWG
IP Rating:	IP67

Body Material:	TPU, Black
Coupling Nut/Screw:	Brass, Nickel Plated
Contacts:	Phosphor Bronze Gold-Plated 1u"(Female), Brass gold plated 1u"(Male)
Insulation Plastic:	PA66+GF UL V-0, Or TPU Yellow (Front Panel Mounting Only)
RoHS:	Compliant

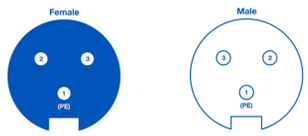
PCB Layout & Panel Cut-out

Part Number	PCB Layout Diagram	Panel Cut-out
PXMBNI78FPF03APCPG135		
PXMBNI78FPF04APCPG135		
PXMBNI78FPF05APCPG135		

Part Number	PCB Layout Diagram	Panel Cut-out
PXMBNI78FPM03APC78		
PXMBNI78FPM04APC78		
PXMBNI78FPM05APC78		

Contact Diagrams (Front View 'A' Code):

PXxxxx78xxx03xxxxxx



3PIN WIRE LIST

P1	PAIR	WIRE COLOUR	P2
1	——	BROWN	OPEN
2	——	RED	
3	——	BLACK	

3PIN WIRE LIST (Flying Leads Only)

P1	PAIR	WIRE COLOUR	P2
PE	——	BROWN	OPEN
2	——	WHITE	
3	——	BLUE	

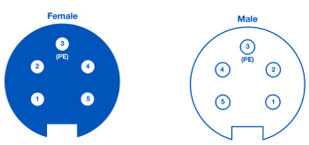
PXxxxx78xxx04xxxxxx



4PIN WIRE LIST

P1	PAIR	WIRE COLOUR	P2
1	——	BROWN	OPEN
2	——	WHITE	
3	——	BLUE	
4	——	BLACK	

PXxxxx78xxx05xxxxxx



5PIN WIRE LIST

P1	PAIR	WIRE COLOUR	P2
1	——	BROWN	OPEN
2	——	WHITE	
3	——	BLUE	
4	——	BLACK	
5	——	GREY	

Part Numbering:

XXX	XXX	XX	XX	X	XX	X	XX
Series	**Material**	**Series Size**	**Body Style**	**Orientation**	**Contacts**	**Code**	**Termination**
PXM	BNI = Brass Nickel	78 = 7/8"	FB = Flex Body	M = Male	03	A	ST = Screw Terminal
PXP	TPU = overmold for PUR		FI = Inline Body	F = Female	04		FL = Flying Lead
			FP = Front Panel Mounting		05		PC = PCB
			RA = Right Angle				CL = Cable

XXX or XXXXX	XXX	XXX
Mounting Nut (Right Angled and Flex Body Only)	**Lead Length**	**Cable Material**
M22	001 = 0.1m	PUR
OR	002 = 0.2m	
Panel Mounting Nut (Flying Leads Only)	005 = 0.5m	
PG135 = PG13.5	010 = 1m	
78 = 7/8"	020 = 2m	
	050 = 5m	

Push-Pull Connectors

Our Push-Pull Connectors are suitable for high-reliability and high-quality applications in medical, instrumentation, military, and communications, where a fast method to connect / disconnect is required. They are manufactured to prevent accidental disconnects with a simple but fast strong-locking mechanism.

Because of the locking mechanism, Push-Pull connectors also provide a clean, streamlined look on devices. They also offer space-saving benefits, as they only require two fingers to grip the shell to connect or disconnect, without twisting.



Key Features:

- Multiple contacts from 2 to 30
- Integrated latch for mating
- High packing density for space savings
- Shock Resistance: 100g, 6ms
- Resistance of Vibration: 10-2000Hz, 15g
- Keying system («G» key standard) of similar connectors for connector alignment – 360° screening for full EMC shielding.
- Security of the Push-Pull self-latching system
- Shielding Efficiency: >75db(10MHz) >40db(1GHz)
- Solder contacts
- Temp:-50°C to +200°C
- Cycle: >4500
- Multiple key options to avoid cross mating
- Humidity: up to 95% at 60 C
- Salt Spray Corrosion Test: >144h

Our X Series Push-Pull connectors are very secure, Push-Pull latching system with high-density panel spacing, 360-degree EMI shielding and quick mating and unmating.

It is designed for indoor or vacuum-tight applications, making it an ideal choice for General-purpose high-quality interconnects, Medical, Test & Measurement, Research, Communications, Audio-Video, Military, Aerospace, Industrial Control, Information Systems, Nuclear, Surveillance. Our Push-Pull connector X series includes the family size range of 00 to 3X which is a highly reliable range of quick mating connectors.



Key Features:

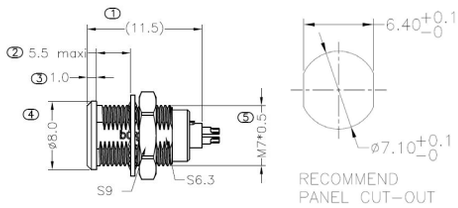
- Multiple contacts from 2 to 30
- Secure Push-Pull self-latching system
- Multiple key options to avoid mismating
- Solder contacts
- High packing density for space savings on fixed sockets (panel mount connectors) and straight plug connectors
- >4500 cycles
- IP50 rated
- 360-degree screening for full EMI shielding
- ROHS compliant

00 Series Fixed Socket



PPCEGG00

- Available in 2, 3 & 4 contacts
- Nut installation 1Nm
- Max Panel Thickness 5.5mm
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Straight Plug version



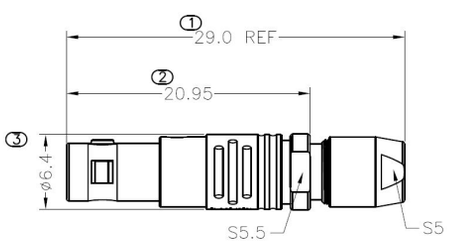
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Wire Range Sizes (AWG)
PPCEGG0002CLL	02	0.5mm	1000V	950V	5A	30 max
PPCEGG0003CLL	03	0.5mm	800V	950V	3A	30 max
PPCEGG0004CLL	04	0.5mm	800V	650V	2A	30 max

00 Series Straight Plug



PPCFGG00

- Available in 2, 3 & 4 contacts
- For cable size 2.7mm to 3.5mm
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Fixed Socket version



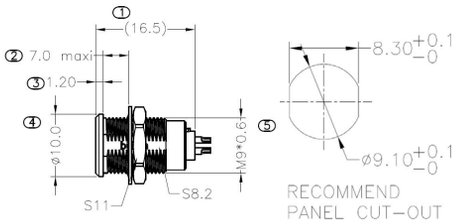
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Cable OD (mm)	Wire Range Sizes (AWG)
PPCFGG0002CLAD	02	0.5mm	1000V	950V	5A	2.7-3.5	30 max
PPCFGG0003CLAD	03	0.5mm	800V	950V	3A	2.7-3.5	30 max
PPCFGG0004CLAD	04	0.5mm	800V	650V	2A	2.7-3.5	30 max

0X series Fixed Socket



PPCEGG0B

- Available in 2, 3, 4, 5, 6, 7 & 9 contacts
- Nut installation 2.5Nm
- Max Panel Thickness 7.0 mm
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Straight Plug version



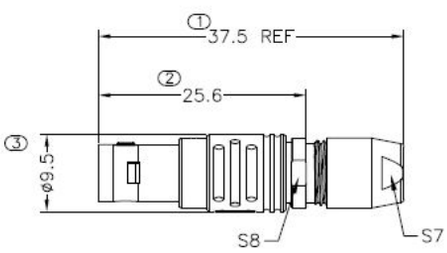
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Wire Range Sizes (AWG)
PPCEGG0B02CLL	02	0.9mm	1300V	1050V	10A	22 max
PPCEGG0B03CLL	03	0.9mm	1200V	900V	8A	22 max
PPCEGG0B04CLL	04	0.7mm	850V	700V	7A	22 max
PPCEGG0B05CLL	05	0.7mm	1000V	700V	6.5A	22 max
PPCEGG0B06CLL	06	0.5mm	850V	650V	2.5A	28 max
PPCEGG0B07CLL	07	0.5mm	800V	700V	5.5A	28 max
PPCEGG0B09CLL	09	0.5mm	600V	500V	2A	28 max

0X series Straight Plug



PPCFGG0B

- Available in 2, 3, 4, 5, 6, 7 & 9 contacts
- For cable size 2.7mm to 3.5mm
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Fixed Socket



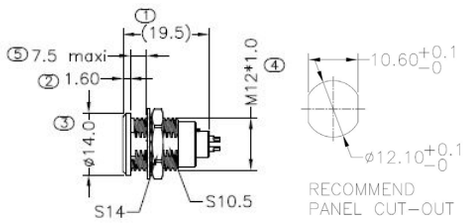
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Cable OD (mm)	Wire Range Sizes (AWG)
PPCFGG0B02CLAD	02	0.9mm	1300V	1050V	10A	4.3-5.0	22 max
PPCFGG0B03CLAD	03	0.9mm	1200V	900V	8A	4.3-5.0	22 max
PPCFGG0B04CLAD	04	0.7mm	850V	700V	7A	4.3-5.0	22 max
PPCFGG0B05CLAD	05	0.7mm	1000V	700V	6.5A	4.3-5.0	22 max
PPCFGG0B06CLAD	06	0.5mm	850V	650V	2.5A	4.3-5.0	28 max
PPCFGG0B07CLAD	07	0.5mm	800V	700V	2.5A	4.3-5.0	28 max
PPCFGG0B09CLAD	09	0.5mm	600V	500V	2A	5.2-5.6	28 max

1X series Fixed Socket



PPCEGG1B

- Available in 2, 3, 4, 5, 6, 7, 8, 10, 12, 14 & 16 contacts
- Nut installation 4.5Nm
- Max Panel Thickness 7.5mm
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Straight Plug version



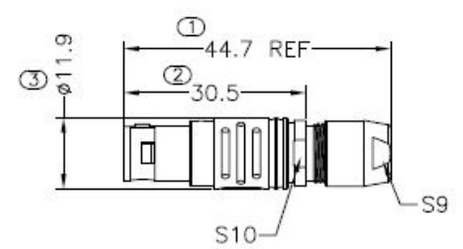
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Wire Range Sizes (AWG)
PPCEGG1B02CLL	02	1.3mm	1500V	1350V	15A	20 max
PPCEGG1B03CLL	03	1.3mm	1300V	1550V	12A	20 max
PPCEGG1B04CLL	04	0.9mm	1350V	1450V	10A	22 max
PPCEGG1B05CLL	05	0.9mm	1250V	1150V	9A	22 max
PPCEGG1B06CLL	06	0.7mm	1050V	1200V	7A	22 max
PPCEGG1B07CLL	07	0.7mm	9500V	1050V	7A	22 max
PPCEGG1B08CLL	08	0.7mm	9500V	1150V	5A	22 max
PPCEGG1B10CLL	10	0.5mm	900V	1500V	2.5A	28 max
PPCEGG1B12CLL	12	0.5mm	800V	1200V	2A	28 max
PPCEGG1B14CLL	14	0.5mm	800V	1200V	2A	28 max
PPCEGG1B16CLL	16	0.5mm	800V	950V	1.5A	28 max

1X series Straight Plug



PPCFGG1B

- Available in 2, 3, 4, 5, 6, 7, 8, 10, 12, 14 & 16 contacts
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Fixed Socket



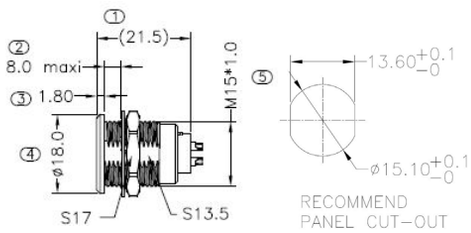
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Cable OD (mm)	Wire Range Sizes (AWG)
PPCFGG1B02CLAD	02	1.3mm	1500V	1300V	15A	4.3-5.0	20 max
PPCFGG1B03CLAD	03	1.3mm	1300V	1550V	12A	4.3-5.0	20 max
PPCFGG1B04CLAD	04	0.9mm	1300V	1450V	10A	4.3-5.0	22 max
PPCFGG1B05CLAD	05	0.9mm	1250V	1150V	9A	4.3-5.0	22 max
PPCFGG1B06CLAD	06	0.7mm	1050V	1200V	7A	4.3-5.0	22 max
PPCFGG1B07CLAD	07	0.7mm	950V	1050V	7A	5.3-6.0	22 max
PPCFGG1B08CLAD	08	0.7mm	950V	1150V	5A	5.3-6.0	22 max
PPCFGG1B10CLAD	10	0.5mm	900V	1500V	2.5A	5.3-6.0	28 max
PPCFGG1B12CLAD	12	0.5mm	800V	1200V	2A	5.3-6.0	28 max
PPCFGG1B14CLAD	14	0.5mm	800V	1200V	2A	6.3-7.0	28 max
PPCFGG1B16CLAD	16	0.5mm	800V	950V	1.5A	6.3-7.0	28 max

2X series Fixed Socket



PPCEGG2B

- Available in 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 19 & 26 contacts
- Nut installation 6Nm
- Max Panel Thickness 8.0mm
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Straight Plug version



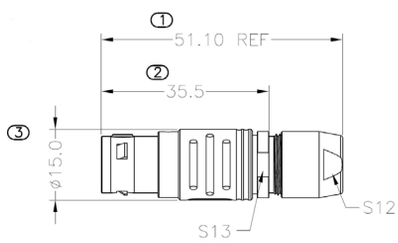
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Wire Range Sizes (AWG)
PPCEGG2B02CLL	02	2mm	2100V	1750V	30A	16 max
PPCEGG2B03CLL	03	1.6mm	2400V	1850V	17A	16 max
PPCEGG2B04CLL	04	1.3mm	1850V	1850V	15A	20 max
PPCEGG2B05CLL	05	1.3mm	1750V	1600V	14A	20 max
PPCEGG2B06CLL	06	1.3mm	1350V	1450V	12A	20 max
PPCEGG2B07CLL	07	1.3mm	1750V	1600V	11A	20 max
PPCEGG2B08CLL	08	0.9mm	1500V	1250V	10A	22 max
PPCEGG2B10CLL	10	0.9mm	1450V	1300V	8A	22 max
PPCEGG2B12CLL	12	0.7mm	1250V	1350V	7A	22 max
PPCEGG2B14CLL	14	0.7mm	1150V	1350V	6.5A	22 max
PPCEGG2B16CLL	16	0.7mm	950V	1250V	6A	22 max
PPCEGG2B18CLL	18	0.7mm	850V	1200V	5.5A	22 max
PPCEGG2B19CLL	19	0.7mm	950V	4250V	5A	22 max
PPCEGG2B26CLL	26	0.5mm	950V	1300V	2A	28 max

2X series Straight Plug



PPCFGG2B

- Available in 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 19 & 26 contacts
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Fixed Socket



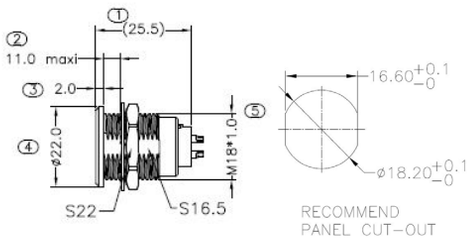
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Cable OD (mm)	Wire Range Sizes (AWG)
PPCFGG2B02CLAD	02	2mm	2100V	1750V	30A	4.3-5.0	16 max
PPCFGG2B03CLAD	03	1.6mm	2400V	1850V	17A	4.3-5.0	16 max
PPCFGG2B04CLAD	04	1.3mm	1850V	1850V	15A	4.3-5.0	20 max
PPCFGG2B05CLAD	05	1.3mm	1750V	1600V	14A	4.3-5.0	20 max
PPCFGG2B06CLAD	06	1.3mm	1350V	1450V	12A	4.3-5.0	20 max
PPCFGG2B07CLAD	07	1.3mm	1750V	1600V	11A	4.3-5.0	20 max
PPCFGG2B08CLAD	08	0.9mm	1500V	1250V	10A	5.3-6.0	22 max
PPCFGG2B10CLAD	10	0.9mm	1450V	1300V	8A	5.3-6.0	22 max
PPCFGG2B12CLAD	12	0.7mm	1250V	1350V	7A	5.3-6.0	22 max
PPCFGG2B14CLAD	14	0.7mm	1150V	1350V	6.5A	6.3-7.0	22 max
PPCFGG2B16CLAD	16	0.7mm	950V	1250V	6A	6.3-7.0	22 max
PPCFGG2B18CLAD	18	0.7mm	950V	1200V	5.5A	7.3-8.0	22 max
PPCFGG2B19CLAD	19	0.7mm	950V	1250V	5A	7.3-8.0	22 max
PPCFGG2B26CLAD	26	0.5mm	950V	1300V	2A	8.3-9.0	28 max

3X series Fixed Socket



PPCEGG3B

- Available in 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20,22,24, 26 & 30 contacts
- Nut installation 9Nm
- Max Panel Thickness 11.0mm
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Straight Plug version



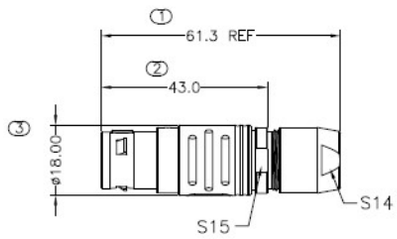
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Wire Range Sizes (AWG)
PPCEGG3B02CLL	02	3mm	2100V	1550V	35A	12 max
PPCEGG3B03CLL	03	2mm	1900V	1500V	25A	14 max
PPCEGG3B04CLL	04	2mm	1450V	1250V	19A	14 max
PPCEGG3B05CLL	05	1.6mm	1900V	1250V	19A	16 max
PPCEGG3B06CLL	06	1.6mm	1600V	1150V	17A	16 max
PPCEGG3B07CLL	07	1.6mm	1700V	1250V	15A	16 max
PPCEGG3B08CLL	08	1.3mm	1650V	1150V	13A	20 max
PPCEGG3B09CLL	09	1.3mm, 2.0mm	1350V, 1350V	1050V, 1050V	6A,15A	20 max, 14 max
PPCEGG3B10CLL	10	1.3mm	1250V	900V	12A	22 max
PPCEGG3B12CLL	12	0.9mm	1450V	1000V	9A	22 max
PPCEGG3B14CLL	14	0.9mm	1200V	1200V	9A	22 max
PPCEGG3B16CLL	16	0.9mm	1200V	850V	8A	22 max
PPCEGG3B18CLL	18	0.9mm	1200V	1050V	7A	22 max
PPCEGG3B20CLL	20	0.7mm	1000V	900V	6A	22 max
PPCEGG3B22CLL	22	0.7mm	1000V	900V	5.5A	22 max
PPCEGG3B24CLL	24	0.7mm	950V	800V	4A	22 max
PPCEGG3B26CLL	26	0.7mm	950V	700V	4A	22 max
PPCEGG3B30CLL	30	0.7mm	800V	700V	3.5A	22 max

3X series Straight Plug



PPCFGG3B

- Available in 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20,22,24, 26 & 30 contacts
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Fixed Socket



Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Cable OD (mm)	Wire Range Sizes (AWG)
PPCFGG3B02CLAD	02	3mm	2100V	1550V	35A	6.3-7.0	12 max
PPCFGG3B03CLAD	03	2mm	1900V	1500V	25A	6.3-7.0	14 max
PPCFGG3B04CLAD	04	2mm	1450V	1250V	19A	6.3-7.0	14 max
PPCFGG3B05CLAD	05	1.6mm	1900V	1250V	19A	6.3-7.0	16 max
PPCFGG3B06CLAD	06	1.6mm	1600V	1150V	17A	6.3-7.0	16 max
PPCFGG3B07CLAD	07	1.6mm	1700V	1250V	15A	6.3-7.0	16 max
PPCFGG3B08CLAD	08	1.3mm	1650V	1150V	13A	6.3-7.0	20 max
PPCFGG3B09CLAD	09	1.3mm, 2mm	1350V, 1350V	1050V, 1050V	6A,15A	6.3-7.0	20 max, 14 max
PPCFGG3B10CLAD	10	1.3mm	1250V	900V	12A	6.3-7.0	20 max
PPCFGG3B12CLAD	12	0.9mm	1450V	1000V	9A	6.3-7.0	22 max
PPCFGG3B14CLAD	14	0.9mm	1200V	1200V	9A	7.3-8.0	22 max
PPCFGG3B16CLAD	16	0.9mm	1200V	850V	8A	7.3-8.0	22 max
PPCFGG3B18CLAD	18	0.9mm	1200V	1050V	7A	7.3-8.0	22 max
PPCFGG3B20CLAD	20	0.7mm	1000V	900V	6A	10.3-11.0	22 max
PPCFGG3B22CLAD	22	0.7mm	1000V	900V	5.5A	10.3-11.0	22 max
PPCFGG3B24CLAD	24	0.7mm	950V	800V	4A	10.3-11.0	22 max
PPCFGG3B26CLAD	26	0.7mm	950V	700V	4A	10.3-11.0	22 max
PPCFGG3B30CLAD	30	0.7mm	800V	700V	3.5A	10.3-11.0	22 max

Electrical:

Shielding efficiency at 10 MHz:	> 95 dB
Shielding efficiency at 1 GHz:	> 40 dB

Mechanical:

Mating Life:	>4500 cycle
Salt Spray:	>144 hours
Operating Temperature:	-50°C to +250°C (-67°F to 482°F)
Protection Index (mated):	IP50
Humidity:	Up to 95% at 60°C
Vibration:	10-2000 Hz, 15g
Shock:	100g, 6ms
Contact Type:	Solder

Material:

Housing Material:	Brass chrome plated shell and nickel plated brass fixed ring (Fixed Socket Plug) brass chrome plated shell and collet nut, plated brass latch sleeve and mid pieces (Straight Plug)
Contact Plating:	Phosphor bronze gold plated 3u” (Fixed Socket Plug), Brass gold plated 3u” (Straight Plug)
Insulator:	PPS
RoHS:	Compliant

Note:

For the fields of the table have two values, the first value is for all the contacts apart from the contact in the centre. The second value is only applicable for the contact in the centre.

Y series Push-Pull connectors offer a solution for outdoor applications. The Push-Pull latching mechanism provides a secure connection whilst the density of the contacts provides considerable panel space savings.

All models of this series are waterproof and watertight when mated to give a protection index of IP66 (in mated condition). The ruggedized design combined with precision manufacturing offers excellent durability, reliability and quality.



Key Features:

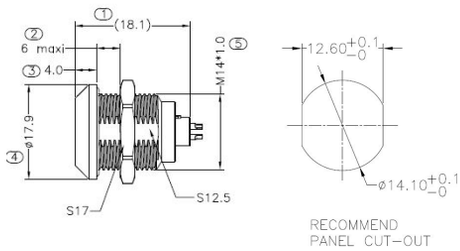
- Multiple contacts from 2 to 30
- IP66 rated
- 360-degree screening for full EMC shielding
- Keying system (G key standard) for connector alignment
- Multiple key features to avoid cross mating of similar connectors
- Rugged housing for extreme working conditions; watertight connection
- Solder contacts (Straight Plug and Fixed Socket)
- High packing density for space savings
- Security of the Push-Pull latching system
- >4500 cycles

0Y Series Fixed Socket



PPCEGG0K

- Available in 2, 3, 4, 5, 6, 7 & 9 contacts
- Nut Installation torque 5.0Nm
- Max Panel Thickness 6.0mm
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Straight Plug version



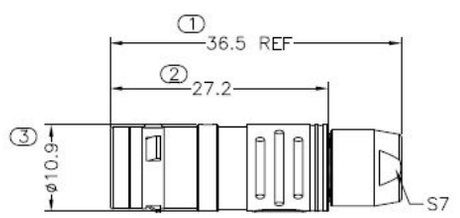
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Wire Range Sizes (AWG)
PPCEGG0K02CLL	02	0.9mm	1300V	1050V	10A	22 max
PPCEGG0K03CLL	03	0.9mm	1200V	900V	8A	22 max
PPCEGG0K04CLL	04	0.7mm	850V	700V	7A	22 max
PPCEGG0K05CLL	05	0.7mm	1000V	700V	6.5A	22 max
PPCEGG0K06CLL	06	0.5mm	850V	650V	2.5A	28 max
PPCEGG0K07CLL	07	0.5mm	800V	700V	2.5A	28 max
PPCEGG0K09CLL	09	0.5mm	600V	600V	2A	28 max

0Y Series Straight Plug



PPCFGG0K

- Available in 2, 3, 4, 5, 6, 7 & 9 contacts
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Fixed Socket version



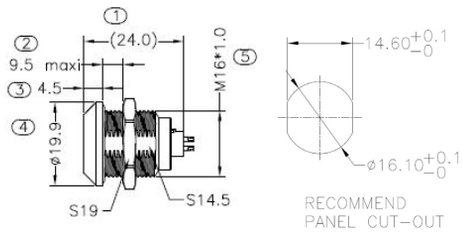
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Cable OD (mm)	Wire Range Sizes (AWG)
PPCFGG0K02CLAD	02	0.9mm	1300V	1050V	10A	4.6-5.0	22 max
PPCFGG0K03CLAD	03	0.9mm	1200V	900V	8A	4.6-5.0	22 max
PPCFGG0K04CLAD	04	0.7mm	850V	700V	7A	4.6-5.0	22 max
PPCFGG0K05CLAD	05	0.7mm	1000V	700V	6.5A	4.6-5.0	22 max
PPCFGG0K06CLAD	06	0.5mm	850V	650V	2.5A	4.6-5.0	28 max
PPCFGG0K07CLAD	07	0.5mm	800V	700V	2.5A	4.6-5.0	28 max
PPCFGG0K09CLAD	09	0.5mm	600V	500V	2A	4.6-5.0	28 max

1Y Series Fixed Socket



PPCEGG1K

- Available in 2, 3, 4, 5, 6, 7,8, 10,12, 14 & 16 contacts
- Nut Installation torque 7.0Nm
- Max Panel Thickness 9.5mm
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Straight Plug version



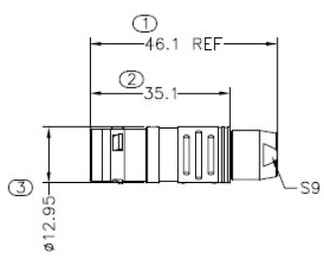
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Wire Range Sizes (AWG)
PPCEGG1K02CLL	02	1.3mm	1500V	1350V	15A	20 max
PPCEGG1K03CLL	03	1.3mm	1300V	1550V	12A	20 max
PPCEGG1K04CLL	04	0.9mm	1350V	1450V	10A	22 max
PPCEGG1K05CLL	05	0.9mm	1250V	1150V	9A	22 max
PPCEGG1K06CLL	06	0.7mm	1050V	1200V	7A	22 max
PPCEGG1K07CLL	07	0.7mm	950V	1050V	7A	22 max
PPCEGG1K08CLL	08	0.7mm	950V	1150V	5A	22 max
PPCEGG1K10CLL	10	0.5mm	900V	1500V	2.5A	28 max
PPCEGG1K12CLL	12	0.5mm	800V	1200V	2A	28 max
PPCEGG1K14CLL	14	0.5mm	800V	1200V	2A	28 max
PPCEGG1K16CLL	16	0.5mm	800V	950V	1.5A	28 max

1Y Series Straight Plug



PPCFGG1K

- Available in 2, 3, 4, 5, 6, 7,8, 10,12, 14 & 16 contacts
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Fixed Socket version



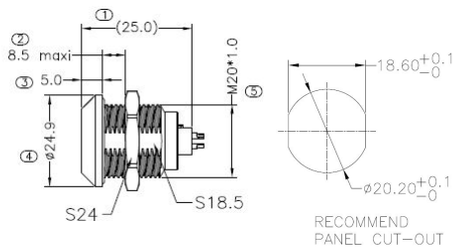
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Cable OD (mm)	Wire Range Sizes (AWG)
PPCFGG1K02CLAD	02	0.9mm	1300V	1050V	10A	4.6-5.0	20 max
PPCFGG1K03CLAD	03	0.9mm	1200V	900V	8A	4.6-5.0	20 max
PPCFGG1K04CLAD	04	0.7mm	850V	700V	7A	4.6-5.0	22 max
PPCFGG1K05CLAD	05	0.7mm	1000V	700V	6.5A	4.6-5.0	22 max
PPCFGG1K06CLAD	06	0.5mm	850V	650V	2.5A	4.6-5.0	22 max
PPCFGG1K07CLAD	07	0.5mm	800V	700V	2.5A	5.6-6.0	22 max
PPCFGG1K08CLAD	09	0.5mm	600V	500V	2A	5.6-6.0	22 max
PPCEGG1K10CLL	10	0.5mm	900V	1500V	2.5A	5.6-6.0	28 max
PPCEGG1K12CLL	12	0.5mm	800V	1200V	2A	5.6-6.0	28 max
PPCEGG1K14CLL	14	0.5mm	800V	1200V	2A	6.6-7.0	28 max
PPCEGG1K16CLL	16	0.5mm	800V	950V	1.5A	6.6-7.0	28 max

2Y Series Fixed Socket



PPCEGG2K

- Available in 2, 3, 4, 5, 6, 7,8, 10, 12,14, 16,18, 19 & 26 contacts
- Nut Installation torque 9.0Nm
- Max Panel Thickness 8.5mm
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Straight Plug version



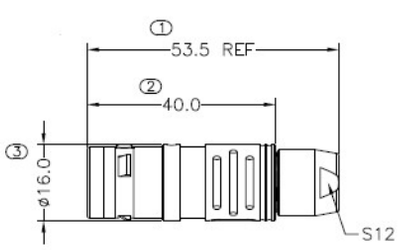
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Wire Range Sizes (AWG)
PPCEGG2K02CLL	02	2mm	2100V	1750V	30A	16 max
PPCEGG2K03CLL	03	1.6mm	2400V	1850V	17A	16 max
PPCEGG2K04CLL	04	1.3mm	1850V	1850V	15A	20 max
PPCEGG2K05CLL	05	1.3mm	1750V	1600V	14A	20 max
PPCEGG2K06CLL	06	1.3mm	1350V	1450V	12A	20 max
PPCEGG2K07CLL	07	1.3mm	1750V	1600V	11A	20 max
PPCEGG2K08CLL	08	0.9mm	1500V	1250V	10A	22 max
PPCEGG2K10CLL	10	0.9mm	1450V	1300V	8A	22 max
PPCEGG2K12CLL	12	0.7mm	1250V	1350V	7A	22 max
PPCEGG2K14CLL	14	0.7mm	1150V	1350V	6.5A	22 max
PPCEGG2K16CLL	16	0.7mm	950V	1250V	6A	22 max
PPCEGG2K18CLL	18	0.7mm	850V	1200V	5.5A	22 max
PPCEGG2K19CLL	19	0.7mm	950V	1250V	5A	22 max
PPCEGG2K26CLL	26	0.5mm	950V	1250V	2A	28 max

2Y Series Straight Plug



PPCFGG2K

- Available in 2, 3, 4, 5, 6, 7,8, 10, 12,14, 16,18, 19 & 26 contacts
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Fixed Socket version



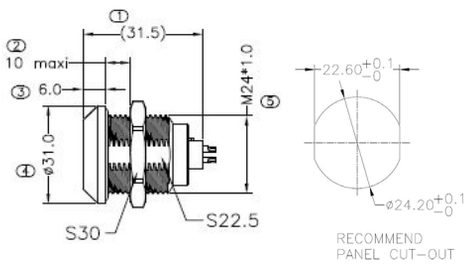
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Cable OD (mm)	Wire Range Sizes (AWG)
PPCFGG2K02CLAD	02	2mm	2100V	1750V	30A	4.6-5.0	16 max
PPCFGG2K03CLAD	03	1.6mm	2400V	1850V	17A	4.6-5.0	16 max
PPCFGG2K04CLAD	04	1.3mm	1850V	1850V	15A	4.6-5.0	20 max
PPCFGG2K05CLAD	05	1.3mm	1750V	1600V	14A	4.6-5.0	20 max
PPCFGG2K06CLAD	06	1.3mm	1350V	1450V	12A	4.6-5.0	20 max
PPCFGG2K07CLAD	07	1.3mm	1750V	1600V	11A	4.6-5.0	20 max
PPCFGG2K08CLAD	08	0.9mm	1500V	1250V	10A	5.6-6.0	22 max
PPCFGG2K10CLAD	10	0.7mm	1450V	1300V	8A	5.6-6.0	22 max
PPCFGG2K12CLAD	12	0.7mm	1250V	1350V	7A	5.6-6.0	22 max
PPCFGG2K14CLAD	14	0.7mm	1150V	1350V	6.5A	6.6-7.0	22 max
PPCFGG2K16CLAD	16	0.7mm	950V	1250V	6A	6.6-7.0	22 max
PPCFGG2K18CLAD	18	0.7mm	950V	1200V	5.5A	7.6-8.0	22 max
PPCFGG2K19CLAD	19	0.7mm	950V	1250V	5A	7.6-8.0	22 max
PPCFGG2K26CLAD	26	0.5mm	950V	1300V	2A	8.6-9.0	28 max

3Y Series Fixed Socket



PPCEGG3K

- Available in 2, 3, 4, 5, 6, 7,8, 10, 12,14, 16,18, 19, 20, 22, 24, 26 & 30 contacts
- Nut Installation torque 12Nm
- Max Panel Thickness 10.0mm
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Straight Plug version



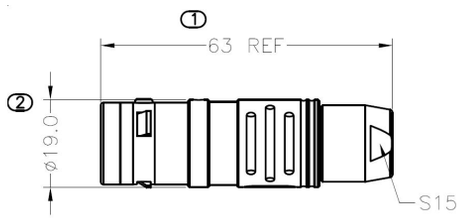
Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Wire Range Sizes (AWG)
PPCEGG3K02CLL	02	3mm	2100V	1550V	35A	12 max
PPCEGG3K03CLL	03	2mm	1900V	1500V	25A	14 max
PPCEGG3K04CLL	04	2mm	1450V	1250V	19A	14 max
PPCEGG3K05CLL	05	1.6mm	1900V	1250V	19A	16 max
PPCEGG3K06CLL	06	1.6mm	1600V	1150V	17A	16 max
PPCEGG3K07CLL	07	1.6mm	1700V	1250V	15A	16 max
PPCEGG3K08CLL	08	1.3mm	1650V	1150V	13A	20 max
PPCEGG3K09CLL	09	1.3mm, 2.0mm	1350V	1050V	6.0A,15.0A	20 max, 14 max
PPCEGG3K10CLL	10	1.3mm	1250V	900V	12A	20 max
PPCEGG3K12CLL	12	0.9mm	1450V	1000V	9A	22 max
PPCEGG3K14CLL	14	0.9mm	1200V	1200V	9A	22 max
PPCEGG3K16CLL	16	0.9mm	1200V	850V	8A	22 max
PPCEGG3K18CLL	18	0.9mm	1200V	1050V	7A	22 max
PPCEGG3K20CLL	20	0.7mm	1000V	900V	6A	22 max
PPCEGG3K22CLL	22	0.7mm	1000V	900V	5.5A	22 max
PPCEGG3K24CLL	24	0.7mm	950V	800V	4A	22 max
PPCEGG3K26CLL	26	0.7mm	950V	700V	4A	22 max
PPCEGG3K30CLL	30	0.7mm	800V	700V	3.5A	22 max

3Y Series Straight Plug



PPCFGG3K

- Available in 2, 3, 4, 5, 6, 7,8, 10, 12,14, 16,18, 19, 20, 22, 24, 26 & 30 contacts
- Temp: -50 C to +200 C
- Solder Terminals
- Durability >4500 cycles
- Operating humidity up to 95%
- Salt Spray Corrosion Test >144h
- Available in Fixed Socket version



Part Number	Contact Number	Terminal Diameter	Test Voltage Pin-Pin	Test Voltage Pin-Shell	Rated Current	Cable OD (mm)	Wire Range Sizes (AWG)
PPCFGG3K02CLAD	02	3mm	2100V	1550V	35A	6.6-7.0	12 max
PPCFGG3K03CLAD	03	2mm	1900V	1500V	25A	6.6-7.0	12 max
PPCFGG3K04CLAD	04	2mm	1450V	1250V	19A	6.6-7.0	14 max
PPCFGG3K05CLAD	05	1.6mm	1900V	1250V	19A	6.6-7.0	14 max
PPCFGG3K06CLAD	06	1.6mm	1600V	1150V	17A	6.6-7.0	16 max
PPCFGG3K07CLAD	07	1.6mm	1700V	1250V	15A	6.6-7.0	16 max
PPCFGG3K08CLAD	08	1.3mm	1650V	1150V	13A	6.6-7.0	20 max
PPCFGG3K09CLAD	09	1.3mm, 2.0mm	1350V, 1350V	1050V, 1050V	6A, 15A	6.6-7.0	20 max, 14 max
PPCFGG3K10CLAD	10	1.3mm	1250V	900V	12A	6.6-7.0	20 max
PPCFGG3K12CLAD	12	0.9mm	1450V	1000V	9A	6.6-7.0	22 max
PPCFGG3K14CLAD	14	0.9mm	1200V	1200V	9A	7.6-8.0	22 max
PPCFGG3K16CLAD	16	0.9mm	1200V	850V	8A	7.6-8.0	22 max
PPCFGG3K18CLAD	18	0.9mm	1200V	1050V	7A	7.6-8.0	22 max
PPCFGG3K20CLAD	20	0.7mm	1000V	900V	6A	10.6-11.0	22 max
PPCFGG3K22CLAD	22	0.7mm	1000V	900V	5.5A	10.6-11.0	22 max
PPCFGG3K24CLAD	24	0.7mm	950V	800V	4A	10.6-11.0	22 max
PPCFGG3K26CLAD	26	0.7mm	950V	700V	4A	10.6-11.0	22 max
PPCFGG3K30CLAD	30	0.7mm	950V	700V	3.5A	10.6-11.0	22 max

Electrical:

Shielding efficiency at 10 MHz:	> 95 dB
Shielding efficiency at 1 GHz:	> 80 dB

Mechanical:

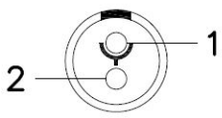
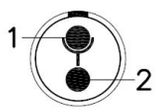
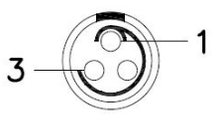
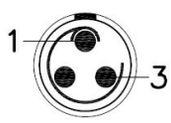
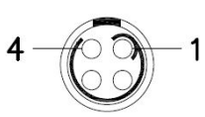
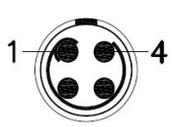
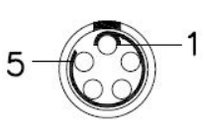
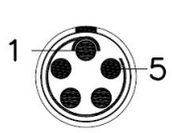
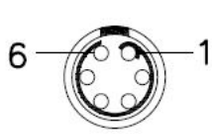
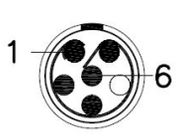
Endurance:	> 4500 cycles
Humidity:	up to 95% at 60° C
Temperature range:	-50° C, +200° C
Resistance to vibrations:	10-2000 Hz, 15 g
Shock resistance:	100 g, 6 ms
Salt spray corrosion test:	> 144h
Protection index (mated):	IP 66
Contact type:	Solder

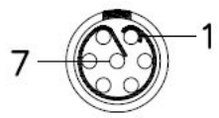
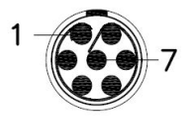
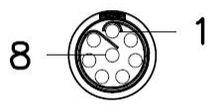
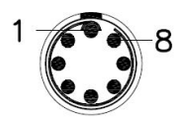
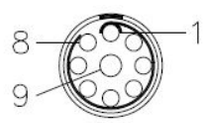
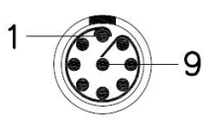
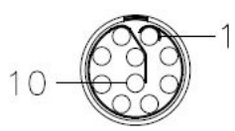
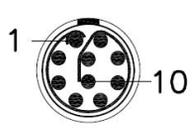
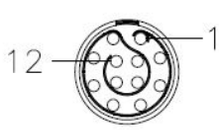
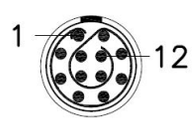
Material:

Housing Material:	Brass chrome plated shell and nickel plated brass fixed ring (Fixed Socket Plug) brass chrome plated shell and collet nut, plated brass latch sleeve and mid pieces (Straight Plug)
Contact Plating:	Phosphor bronze gold plated 3u" (Fixed Socket Plug), Brass gold plated 3u" (Straight Plug)
Insulator:	PPS
RoHS:	Compliant

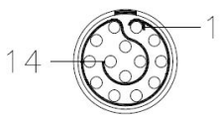
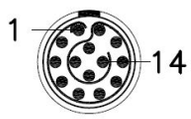
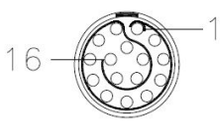
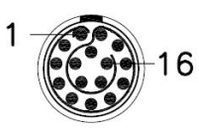
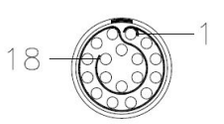
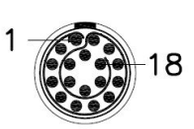
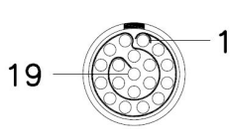
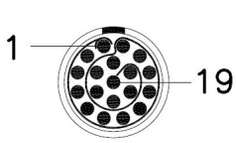
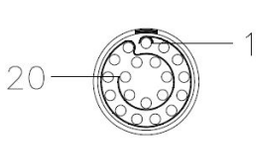
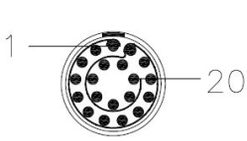
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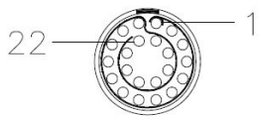
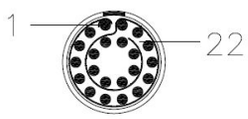
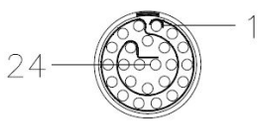
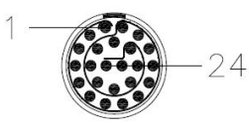
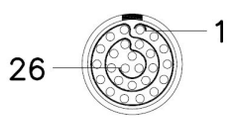
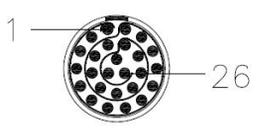
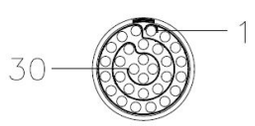
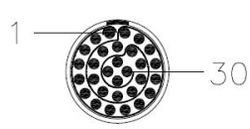
For the fields of the table have two values, the first value is for all the contacts apart from the contact in the centre. The second value is only applicable for the contact in the centre.

Contact Number:	Fixed Socket / Straight Plug:	Pin Number (Solder):
02	F	
02	S	
03	F	
03	S	
04	F	
04	S	
05	F	
05	S	
06	F	
06	S	

Contact Number:	Fixed Socket / Straight Plug:	Pin Number (Solder):
07	F	
07	S	
08	F	
08	S	
09	F	
09	S	
10	F	
10	S	
12	F	
12	S	

Push-Pull Connectors

Contact Number:	Fixed Socket / Straight Plug:	Pin Number (Solder):
14	F	
14	S	
16	F	
16	S	
18	F	
18	S	
19	F	
19	S	
20	F	
20	S	

Contact Number:	Fixed Socket / Straight Plug:	Pin Number (Solder):
22	F	
22	S	
24	F	
24	S	
26	F	
26	S	
30	F	
30	S	

The Bulgin Rectangular Connector range offers a reliable, rugged solution for cable to cable applications in harsh environments with its environmentally sealed range of products.

The series has a male and female option, as well as modifications such as enhanced seal retention, protective end caps, shrink boot adapters, welded flange, terminating resistors and a Y-Type connector for the automotive industry.

Key Features:

- 2, 3, 4, 6, 8 & 12 Contact Count
- IP68 when mated
- Choice of Enhanced Seal Retention (ESR), Protective End Caps (PEC), Shrink Boot Adapters (SBA), Terminating Resistors (TER) and a Y-Type Connector (YTY)
- Wedgelocks aid in the alignment and retention of contacts
- Accepts 14 - 20 AWG



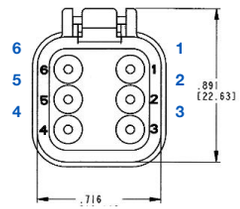
Standard Rectangular Connectors

Standard Rectangular Connectors
Male



PX0100

- 2, 3, 4, 6, 8 & 12 Contacts
- Male housing
- Socket contacts
- Available in grey and black



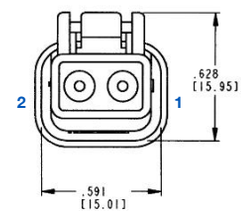
Part Number	Contacts	Key	Termination	Colour	Additional
PX0100S02BK	2	-	Crimp	Black	-
PX0100S02GY	2	-	Crimp	Grey	-
PX0100S03BK	3	-	Crimp	Black	-
PX0100S03GY	3	-	Crimp	Grey	-
PX0100S04BK	4	-	Crimp	Black	-
PX0100S04GY	4	-	Crimp	Grey	-
PX0100S06BK	6	-	Crimp	Black	-
PX0100S06GY	6	-	Crimp	Grey	-
PX0100S08ABK	8	A	Crimp	Black	-
PX0100S08AGY	8	A	Crimp	Grey	-
PX0100S12ABK	12	A	Crimp	Black	-
PX0100S12AGY	12	A	Crimp	Grey	-

Standard Rectangular Connectors
Male - ESR



PX0102

- 2 Contacts
- Male housing
- Enhanced seal retention
- Socket contacts
- Available in black



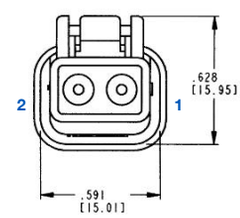
Part Number	Contacts	Key	Termination	Colour	Additional
PX0102S02BK	2	-	Crimp	Black	ESR

Standard Rectangular Connectors
Male - ESR & PEC



PX0103

- 2 Contacts
- Male housing
- Enhanced seal retention & protective end cap
- Socket contacts
- Available in grey



Part Number	Contacts	Key	Termination	Colour	Additional
PX0103S02BK	2	-	Crimp	Black	ESR & PEC
PX0103S02GY	2	-	Crimp	Grey	ESR & PEC

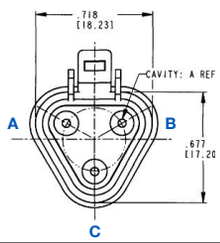
Standard Rectangular Connectors

Standard Rectangular Connectors
Male - PEC



PX0105

- 2, 3, 4, 6, 8 & 12 Contacts
- Male housing
- Protective end cap
- Socket contacts
- Available in grey and black



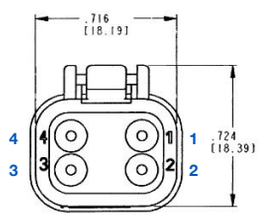
Part Number	Contacts	Key	Termination	Colour	Additional
PX0105S02BK	2	-	Crimp	Black	PEC
PX0105S02GY	2	-	Crimp	Grey	PEC
PX0105S03BK	3	-	Crimp	Black	PEC
PX0105S03GY	3	-	Crimp	Grey	PEC
PX0105S04BK	4	-	Crimp	Black	PEC
PX0105S04GY	4	-	Crimp	Grey	PEC
PX0105S06BK	6	-	Crimp	Black	PEC
PX0105S06GY	6	-	Crimp	Grey	PEC
PX0105S08ABK	8	A	Crimp	Black	PEC
PX0105S08AGY	8	A	Crimp	Grey	PEC
PX0105S12ABK	12	A	Crimp	Black	PEC
PX0105S12AGY	12	A	Crimp	Grey	PEC

Standard Rectangular Connectors
Male - SBA



PX0108

- 2, 3 & 4, 6 & 12 Contacts
- Male housing
- Shrink boot adapter
- Socket contacts
- Available in grey



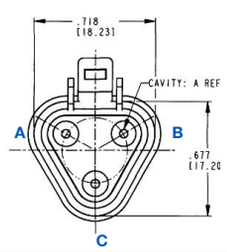
Part Number	Contacts	Key	Termination	Colour	Additional
PX0108S02GY	2	-	Crimp	Grey	SBA
PX0108S03GY	3	-	Crimp	Grey	SBA
PX0108S04GY	4	-	Crimp	Grey	SBA
PX0108S06GY	6	-	Crimp	Grey	SBA
PX0108S12AGY	12	-	Crimp	Grey	SBA

Standard Rectangular Connectors
Male - TER



PX0110

- 3 Contacts
- Male housing
- Terminating resistor (End Cap)
- Socket contacts
- Available in grey



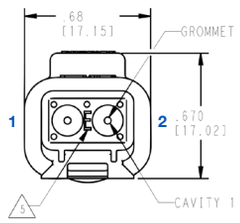
Part Number	Contacts	Key	Termination	Colour	Additional
PX0110S03GY	3	-	Crimp	Grey	TER

Standard Rectangular Connectors
Female



PX0101

- 2, 3, 4, 6, 8 & 12 Contacts
- Female housing
- Plug contacts
- Available in grey and black



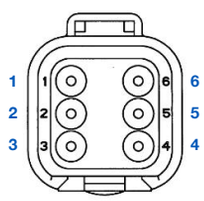
Part Number	Contacts	Key	Termination	Colour	Additional
PX0101P02BK	2	-	Crimp	Black	-
PX0101P02GY	2	-	Crimp	Grey	-
PX0101P03BK	3	-	Crimp	Black	-
PX0101P03GY	3	-	Crimp	Grey	-
PX0101P04BK	4	-	Crimp	Black	-
PX0101P04GY	4	-	Crimp	Grey	-
PX0101P06BK	6	-	Crimp	Black	-
PX0101P06GY	6	-	Crimp	Grey	-
PX0101P08ABK	8	A	Crimp	Black	-
PX0101P08AGY	8	A	Crimp	Grey	-
PX0101P12ABK	12	A	Crimp	Black	-
PX0101P12AGY	12	A	Crimp	Grey	-

Standard Rectangular Connectors
Female - PEC



PX0106

- 2, 3, 4, 6, 8 & 12 Contacts
- Female housing
- Protective end cap
- Plug contacts
- Available in grey and black
- Additional options available



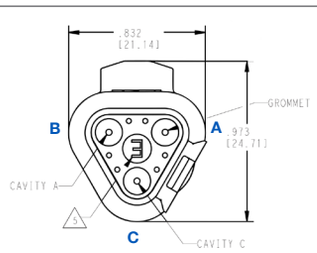
Part Number	Contacts	Key	Termination	Colour	Additional
PX0106P02BK	2	-	Crimp	Black	PEC
PX0106P02GY	2	-	Crimp	Grey	PEC
PX0106P03BK	3	-	Crimp	Black	PEC
PX0106P03GY	3	-	Crimp	Grey	PEC
PX0106P04BK	4	-	Crimp	Black	PEC
PX0106P04GY	4	-	Crimp	Grey	PEC
PX0106P06BK	6	-	Crimp	Black	PEC
PX0106P06GY	6	-	Crimp	Grey	PEC
PX0106P08ABK	8	A	Crimp	Black	PEC
PX0106P08AGY	8	A	Crimp	Grey	PEC
PX0106P12ABK	12	A	Crimp	Black	PEC
PX0106P12AGY	12	A	Crimp	Grey	PEC

Standard Rectangular Connectors
Female - SBA



PX0109

- 2, 3, 4, 6, 8 & 12 Contacts
- Female housing
- Shrink boot adapter
- Plug contacts
- Available in grey and black



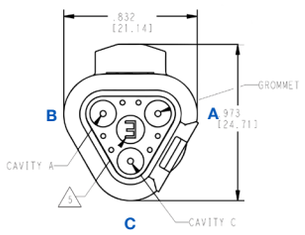
Part Number	Contacts	Key	Termination	Colour	Additional
PX0109P02BK	2	-	Crimp	Black	SBA
PX0109P02GY	2	-	Crimp	Grey	SBA
PX0109P03BK	3	-	Crimp	Black	SBA
PX0109P03GY	3	-	Crimp	Grey	SBA
PX0109P04GY	4	-	Crimp	Grey	SBA
PX0109P06GY	6	-	Crimp	Grey	SBA
PX0109P08GY	8	-	Crimp	Grey	SBA
PX0109P12AGY	12	-	Crimp	Grey	SBA

Standard Rectangular Connectors
Female - TER



PX0111

- 3 Contacts
- Female housing
- Terminating resistor
- Plug contacts
- Available in grey



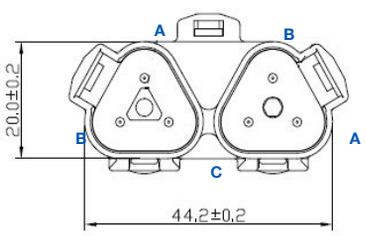
Part Number	Contacts	Key	Termination	Colour	Additional
PX0111P03GY	3	-	Crimp	Grey	TER

Standard Rectangular Connectors
Female - YTY



PX0113

- 3 Contacts
- Female housing
- Y-type connector
- Plug contacts
- Available in grey



Part Number	Contacts	Key	Termination	Colour	Additional
PX0113P03GY	3	-	Crimp	Grey	YTY

Standard Rectangular Connectors

Contacts



SA1000

- Crimp plug & sockets
- Choice of gold and nickel Plated
- Green stripe available
- Size 16 contacts

Part Number	Plating	AWG	Type	Plug / Socket	Additional
SA1000/G	Nickel Plating	14	Solid	Plug	Green Stripe
SA1001/G	Nickel Plating	14	Solid	Socket	Green Stripe
SA1002/G	Nickel Plating	16 - 20	Solid	Plug	Green Stripe
SA1003/G	Nickel Plating	16 - 20	Solid	Socket	Green Stripe
SA1000	Nickel Plating	14	Solid	Plug	-
SA1001	Nickel Plating	14	Solid	Socket	-
SA1002	Nickel Plating	16 - 20	Solid	Plug	-
SA1003	Nickel Plating	16 - 20	Solid	Socket	-
SA1004	Nickel Plating	16 - 20	Stamped	Plug	Bandolier
SA1005	Nickel Plating	16 - 20	Stamped	Socket	Bandolier
SA1006	Nickel Plating	14 - 18	Stamped	Plug	Bandolier
SA1007	Nickel Plating	14 - 18	Stamped	Socket	Bandolier
SA1008	Gold Plating	14 - 18	Stamped	Plug	Bandolier
SA1009	Gold Plating	14 - 18	Stamped	Socket	Bandolier
SA1010/G	Gold Plating	14	Solid	Socket	Green Stripe
SA1011/G	Gold Plating	14	Solid	Socket	Green Stripe
SA1012	Gold Plating	16 - 20	Solid	Plug	-
SA1013	Gold Plating	16 - 20	Solid	Socket	-

Wedgelocks



WLP12

- Plug & sockets available
- 2, 3, 4, 6, 8 & 12 Contact

* Wedgelocks are sold separately and are required for confirmation of alignment of contact. Please refer to the chart above to determine part required: e.g. WLP02 is required for 2 Contact female housings

Part Number	Contacts	Plug / Socket	Additional
WLP02	02	Plug	-
WLS02	02	Socket	-
WLP03	03	Plug	-
WLS03	03	Socket	-
WLP04	04	Plug	-
WLS04	04	Socket	-
WLP06	06	Plug	-
WLS06	06	Socket	-
WLP08	08	Plug	-
WLS08	08	Socket	-
WLP12	12	Plug	-
WLS12	12	Socket	-

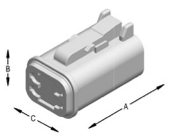
Tooling

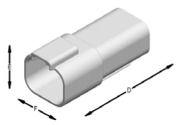


- Crimp tools available for solid and stamped contacts (closed and open barrel)
- Probe extraction tool

Part Number	Additional
10000	Crimping tool for Rectangular Connector solid (closed barrel) contacts - size 12, 16, and 20 - wire gauge 12-26 AWG
10001	Probe extraction tool
10002	Crimping tool for Rectangular Connector solid (closed barrel) contacts - size 16 - wire gauge 16-20 AWG
10003	Crimping tool for Rectangular Connector stamped (open barrel) contacts - size 12, 16, and 20 - wire gauge 10-23 AWG
10004	Crimping tool for Rectangular Connector stamped (open barrel) contacts sealing hole - size 12, 16, and 20 - wire gauge 14-24 AWG

STANDARD SERIES DIMENSIONS





	Male			Female		
Cavity	Overall Length A	Overall Height B	Overall Width C	Overall Length D	Overall Height E	Overall Width F
2	1.118 (28.4)	.628 (15.95)	.591 (15.01)	1.708 (43.38)	.670 (17.02)	.675 (17.15)
3	1.118 (28.4)	.934 (23.72)	.718 (18.23)	1.698 (43.13)	.973 (24.71)	.832 (21.13)
4	1.218 (30.94)	.724 (18.39)	.716 (18.19)	1.808 (45.92)	.776 (19.71)	.820 (20.83)
6	1.218 (30.94)	.891 (22.63)	.716 (18.19)	1.808 (45.92)	.951 (24.16)	.820 (20.83)
8	1.217 (30.91)	.776 (19.71)	1.465 (37.21)	1.798 (45.67)	1.000 (25.40)	1.435 (36.45)
12	1.218 (30.94)	.716 (18.19)	1.597 (40.56)	1.808 (46.92)	.876 (22.25)	1.597 (40.56)

* Dimensions are for reference only.

Electrical:

Voltage:	250V
No Contacts:	2, 3, 4, 6, 8 & 12
Insulation Resistance:	>1000MΩ
Dielectric Strength:	No damage when exposed
Dielectric Withstanding Voltage:	1500 VAC
Operating Temperature Range:	-55°C to +125°C
Current:	13A

Mechanical:

Sealing:	IP68 when mated
Contact Accommodation:	14-20AWG (2.0-0.5mm2)
Termination:	Crimp terminals
Cycles:	>100
Contact Size:	16

Material

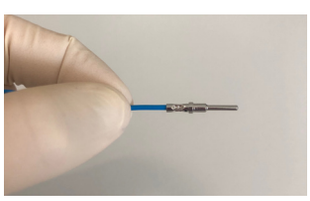
Grommet:	Silicone rubber
Insert Retainer:	PC/PBT
Receptacle Interfacial Seal:	Silicone Rubber
Shell:	PC/PBT
Wedgelocks:	PC/PBT
RoHS:	Compliant

Contact Layout (Rear View)



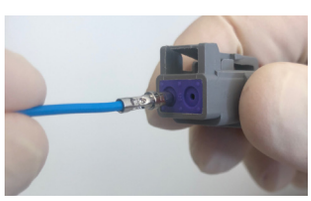
Contact Insertion Instructions

Step One:



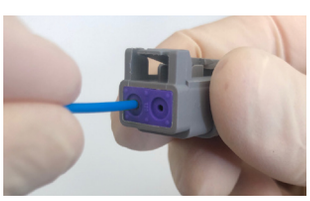
Use a previously crimped contact and wire and hold just behind the contact barrel.

Step Two:



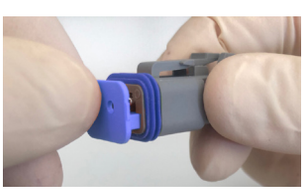
Line the contact up with the grommet.

Step Three:



Push the contact until a click is felt. Check the contact is in place by gently tugging and confirming alignment. Repeat for number of contacts desired

Step Four:



When contacts are in place, insert the appropriate wedgelock until a click is heard. Once male and female housings are prepared the parts can be mated

Standard Rectangular Connectors

PX0	XXX	X	XX	X	XX
Range	**Body Type**	**Contact Type**	**Contacts**	**Key**	**Colour**
PX0	100 = Male 101 = Female 102 = Male Enhanced Seal Retention 103 = Male Enhanced Seal Retention & Protective End Cap 105 = Male Protective End Cap 106 = Female Protective End Cap 108 = Male Shrink Boot Adapter 109 = Female Shrink Boot Adapter 110 = Male Terminating Resistor 111 = Terminating Resistor 113 = Female Y Type	S = Socket P = Plug	02 03 04 06 08 12	A = A Key	GY = Grey BK = Black

Bulgin Miniature Rectangular Connectors offer a solution to smaller wire gauges with the ability to design to use size multiple-sized contacts. These connectors are environmentally sealed.

These rugged thermoplastic connectors feature silicone rear wire and face seals that ensure the connectors withstand some of the harshest environments. Also, they provide reliability and performance on the engine or transmission, solenoid interfaces, on the chassis or in the cab & on motor controllers. These connectors are used in Agriculture, Automotive Industry, Forestry, Recreational, Marine & Mining.

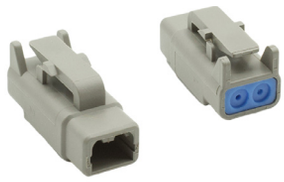
Key Features:

- Insulation Resistance:
  1000 megohms minimum at 25°C Operating temperatures -55°C to +125°C
- IP68 rating when mated
- Male and Female options
- Latch ensures secure mating
- Avaliable with Protective End Caps (PEC)
- Wedgelocks aid in the alignment and retention of contacts
- Accepts 14 - 22 AWG



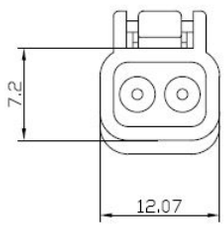
Miniature Rectangular Connectors

Miniature Rectangular Connectors Male



PX0010

- 2, 3, 4, 6, 8 & 12 Contacts
- Male housing
- Socket contacts
- Available in grey



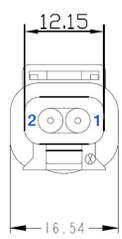
Part Number	Contacts	Key	Termination	Colour	Additional
PX0010S02GY	2	-	Crimp	Grey	-
PX0010S03GY	3	-	Crimp	Grey	-
PX0010S04GY	4	-	Crimp	Grey	-
PX0010S06GY	6	-	Crimp	Grey	-
PX0010S08AGY	8	A	Crimp	Grey	-
PX0010S12AGY	12	A	Crimp	Grey	-

Miniature Rectangular Connectors Female



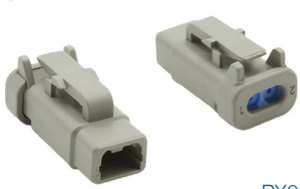
PX0011

- 2, 3, 4, 6, 8 & 12 Contacts
- Female housing
- Plug contacts
- Available in grey



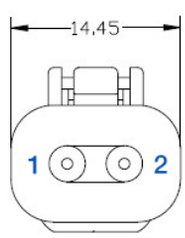
Part Number	Contacts	Key	Termination	Colour	Additional
PX0011P02GY	2	-	Crimp	Grey	-
PX0011P03GY	3	-	Crimp	Grey	-
PX0011P04GY	4	-	Crimp	Grey	-
PX0011P06GY	6	-	Crimp	Grey	-
PX0011P08AGY	8	A	Crimp	Grey	-
PX0011P12AGY	12	A	Crimp	Grey	-

Miniature Rectangular Connectors Male - PEC



PX0012

- 2, 3, 4, 6, 8 & 12 Contacts
- Male housing
- Socket contacts
- Available in grey
- Protective end cap



Part Number	Contacts	Key	Termination	Colour	Additional
PX0012S02GY	2	-	Crimp	Grey	PEC
PX0012S03GY	3	-	Crimp	Grey	PEC
PX0012S04GY	4	-	Crimp	Grey	PEC
PX0012S06GY	6	-	Crimp	Grey	PEC
PX0012S08AGY	8	A	Crimp	Grey	PEC
PX0012S12AGY	12	A	Crimp	Grey	PEC

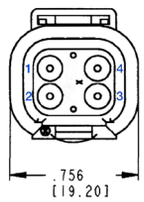
Miniature Rectangular Connectors

Miniature Rectangular Connectors
Female - PEC



PX0013

- 2, 3, 4, 6, 8 & 12 Contacts
- Female housing
- Plug contacts
- Available in grey
- Protective end cap



Part Number	Contacts	Key	Termination	Colour	Additional
PX0013P02GY	2	-	Crimp	Grey	PEC
PX0013P03GY	3	-	Crimp	Grey	PEC
PX0013P04GY	4	-	Crimp	Grey	PEC
PX0013P06GY	6	-	Crimp	Grey	PEC
PX0013P08AGY	8	A	Crimp	Grey	PEC
PX0013P12AGY	12	A	Crimp	Grey	PEC

Contacts



SA1000

- Crimp plug & sockets
- Choice of gold and nickel plating

Part Number	Plating	AWG	Type	Plug / Socket
SA1014	Nickel	16 - 18	Stamped	Plug
SA1015	Nickel	16 - 22	Stamped	Socket
SA1016	Gold	16 - 18	Stamped	Plug
SA1017	Gold	16 - 22	Stamped	Socket

Tooling



- Crimp tools available for solid and stamped contacts (closed and open barrel)

Part Number	Additional
10000	Crimping tool for Rectangular Connector solid (closed barrel) contacts - size 12, 16, and 20 - wire gauge 12-26 AWG
10002	Crimping tool for Rectangular Connector solid (closed barrel) contacts - size 16 - wire gauge 16-20 AWG

Wedgelocks



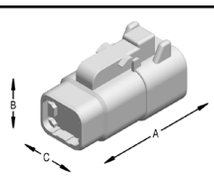
WLM

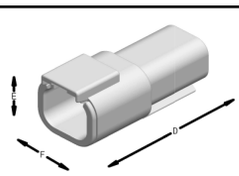
- Plug & sockets available
- 2, 3, 4, 6, 8 & 12 Contact

* Wedgelocks are sold separately and are required for confirmation of alignment of contact. Please refer to the chart above to determine part required.

Part Number	Contacts	Plug / Socket
WLMP02	02	Plug
WLMS02	02	Socket
WLMP03	03	Plug
WLMS03	03	Socket
WLMP04	04	Plug
WLMS04	04	Socket
WLMP06	06	Plug
WLMS06	06	Socket
WLMP08	08	Plug
WLMS08	08	Socket
WLMP12	12	Plug
WLMS12	12	Socket

MINIATURE SERIES DIMENSIONS





	Male			Female		
Cavity	Overall Length A	Overall Height B	Overall Width C	Overall Length D	Overall Height E	Overall Width F
2	1.620 (41.15)	.638 (16.21)	.475 (12.07)	1.085 (27.56)	.508 (12.90)	.651 (16.54)
3	1.620 (41.15)	.638 (16.21)	.640 (16.26)	1.085 (27.56)	.551 (14.00)	.861 (20.73)
4	1.720 (43.69)	.722 (19.61)	.600 (15.24)	1.185 (30.10)	.695 (17.65)	.756 (19.20)
6	1.720 (43.69)	.937 (23.80)	.600 (15.24)	1.185 (30.10)	.817 (20.75)	.756 (19.20)
8	1.720 (43.69)	.796 (20.22)	1.245 (31.62)	1.185 (30.10)	.600 (15.24)	1.245 (31.62)
12	1.720 (43.69)	.796 (20.22)	1.575 (40.01)	1.185 (30.10)	.600 (15.24)	1.575 (40.01)

* Dimensions are for reference only.

Miniature Rectangular Connectors

Electrical:

Voltage:	250V
No Contacts:	2, 3, 4, 6, 8 & 12
Insulation Resistance:	>1000MΩ
Dielectric Withstanding Voltage:	1500 VAC
Operating Temperature Range:	-55°C to +125°C
Current:	7.5A

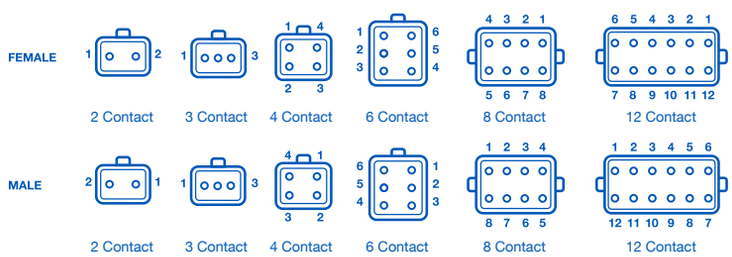
Mechanical:

Sealing:	IP68 when mated
Contact Accommodation:	14 - 22 AWG (2.50 - 0.35 mm²)
Termination:	Crimp terminals
Cycles:	>100
Contact Size:	20

Material

Grommet:	Silicone rubber
Insert Retainer:	PC/PBT
Receptacle Interfacial Seal:	Silicone rubber
Shell:	PC/PBT
Wedgelocks:	PC/PBT
RoHS:	Compliant

Contact Layout (Rear View)



Contact Insertion Instructions

Step One:



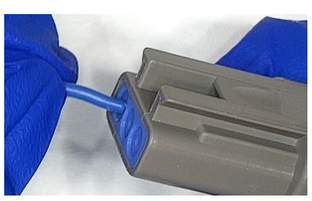
Use a previously crimped contact and wire and hold just behind the contact barrel.

Step Two:



Line the contact up with the grommet.

Step Three:



Push the contact until a click is felt. Check the contact is in place by gently tugging and confirming alignment. Repeat for number of contacts desired

Step Four:



When contacts are in place, insert the appropriate wedgelock until a click is heard. Once male and female housings are prepared the parts can be mated

PX0	XX	X	XX	X	XX
Range	**Body Type**	**Contact Type**	**Contacts**	**Key**	**Colour**
PX00	10 = Male	S = Socket	02	A = A Key	GY = Grey
	11 = Female	P = Plug	03		BK = Black
	12 = Male Protective End Cap		04		
	13 = Female Protective End Cap		06		
			08		
			12		

The Bulgin Power Rectangular Connector series offers a higher current of power whilst keeping the miniature size of the Rectangular Connector series. Rated to IP68 when mated, this series of connectors are able to withstand some of the harshest environments.

Available in two or four contact variants, the Power Rectangular Series offers a 25A current rating. These connectors are used in Agriculture, Construction, Emergency Vehicles, Forestry, Recreational, Marine, Mining and Automotive Industry.

Key Features:

- Insulation Resistance: 1000 megohms minimum at 25°C
- Operating temperatures -55°C to +125°C
- IP68 when mated
- Male and Female options
- Latch ensures secure mating
- Avaliable with Protective End Cap (PEC)
- Wedgelocks aid in the alignment and retention of contacts
- Accepts 10 - 14 AWG Cable



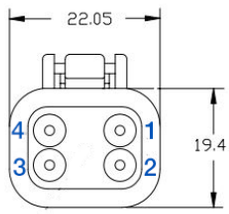
Power Rectangular Connectors

Power Rectangular Connectors Male



PX1000

- 2 & 4 Contacts
- Male housing
- Socket contacts
- Available in grey



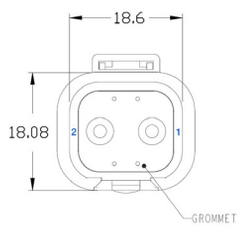
Part Number	Contacts	Termination	Colour	Additional
PX1000S02GY	2	Crimp	Grey	-
PX1000S04GY	4	Crimp	Grey	-

Power Rectangular Connectors Female



PX1001

- 2 & 4 Contacts
- Female housing
- Plug contacts
- Available in grey



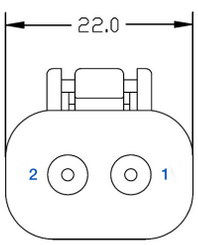
Part Number	Contacts	Termination	Colour	Additional
PX1001P02GY	2	Crimp	Grey	
PX1001P04GY	4	Crimp	Grey	

Power Rectangular Connectors Male - PEC



PX1002

- 2 & 4 Contacts
- Male housing
- Socket contacts
- Available in grey
- Protective end cap



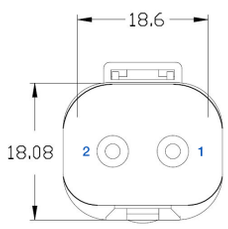
Part Number	Contacts	Termination	Colour	Additional
PX1002S02GY	2	Crimp	Grey	PEC
PX1002S04GY	4	Crimp	Grey	PEC

Power Rectangular Connectors Female - PEC



PX1003

- 2 & 4 Contacts
- Female housing
- Plug contacts
- Available in grey
- Protective end cap



Part Number	Contacts	Termination	Colour	Additional
PX1003P02GY	2	Crimp	Grey	PEC
PX1003P04GY	4	Crimp	Grey	PEC

Power Rectangular Connectors

Contacts

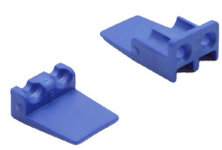


SA1000

- Crimp plug & sockets
- Choice of gold and nickel plated

Part Number	Plating	AWG	Type	Plug / Socket
SA1018	Nickel	12 - 14	Stamped	Plug
SA1019	Nickel	12 - 14	Stamped	Socket
SA1020	Gold	12 - 14	Stamped	Plug
SA1021	Gold	12 - 14	Stamped	Socket

Wedgelocks



WLP12

- Plug & sockets available
- 2 & 4 Contact

* Wedgelocks are sold separately and are required for confirmation of alignment of contact. Please refer to the chart above to determine part required.

Part Number	Contacts	Plug / Socket
WLPP02	02	Plug
WLPS02	02	Socket
WLPP04	04	Plug
WLPS04	04	Socket

Tooling

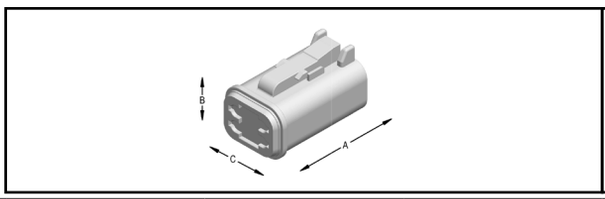


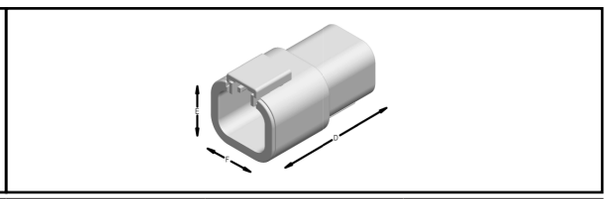
- Crimp tools available for solid and stamped contacts (closed and open barrel)

Part Number	Additional
10003	Crimping tool for Rectangular Connector stamped (open barrel) contacts - size 12, 16, and 20 - wire gauge 10-23 AWG
10004	Crimping tool for Rectangular Connector stamped (open barrel) contacts sealing hole - size 12, 16, and 20 - wire gauge 14-24 AWG

Power Rectangular Connectors

POWER SERIES DIMENSIONS





	Male			Female		
Cavity	**Overall Length A**	**Overall Height B**	**Overall Width C**	**Overall Length D**	**Overall Height E**	**Overall Width F**
2	1.364 (34.65)	.711 (18.06)	.732(18.59)	1.861 (47.27)	.869 (22.07)	.872 (22.15)
4	1.364 (34.65)	.960 (24.38)	.868 (22.05)	1.861 (47.27)	1.048 (26.62)	1.060 (26.92)

* Dimensions are for reference only.

Power Rectangular Connectors

Electrical:

Voltage:	200V
No Contacts:	2 & 4
Insulation Resistance:	>1000MΩ
Dielectric Withstanding Voltage:	1500 VAC
Operating Temperature Range:	-55°C to +125°C
Current:	25A

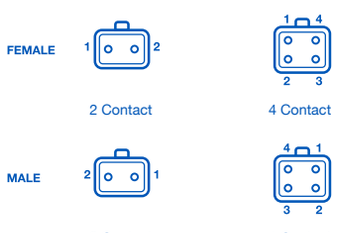
Mechanical:

Sealing:	IP68 when mated
Contact Accommodation:	10 - 14 AWG (3.0-2.0 mm²)
Termination:	Crimp terminals
Cycles:	>100
Contact Size:	12

Material

Grommet:	Silicone rubber
Insert Retainer:	PC/PBT
Receptacle Interfacial Seal:	Silicone rubber
Shell:	PC/PBT
Wedgelocks:	PC/PBT
RoHS:	Compliant

Contact Layout (Rear View)



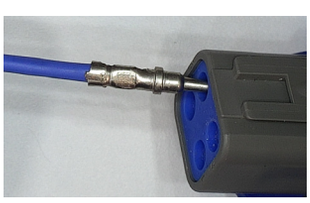
Contact Insertion Instructions

Step One:



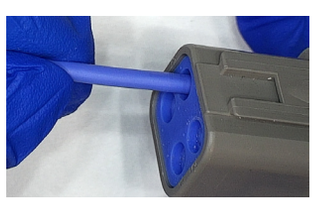
Use a previously crimped contact and wire and hold just behind the contact barrel.

Step Two:



Line the contact up with the grommet.

Step Three:



Push the contact until a click is felt. Check the contact is in place by gently tugging and confirming alignment. Repeat for number of contacts desired

Step Four:



When contacts are in place, insert the appropriate wedgelock until a click is heard. Once male and female housings are prepared the parts can be mated

PX10	XX	X	XX	XX
Range	**Body Type**	**Contact Type**	**Contacts**	**Colour**
PX10	00 = Male	S = Socket	02	GY = Grey
	01 = Female	P = Plug	04	BK = Black
	02 = Male Protective End Cap			
	03 = Female Protective End Cap			

The Bulgin Automotive Rectangular Connectors provide environmentally sealed, field-proven and rugged reliability.

This series offers an IP67 when mated protection, enabling them to be deployed in some of the harshest environments.

Key Features:

- Insulation Resistance: 2000 megohms
- Operating temperatures -40°C to +125°C
- IP67 when mated
- Current Rating 14A
- Male and Female option
- Latch ensures secure mating
- Wedgelocks aid in the alignment and retention of contacts
- Accepts 13-22 AWG Cable

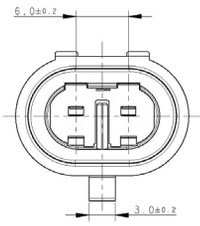


Automotive Rectangular Connector 1.5mm
Male Terminals



PX2000

- 1, 2, 3, 4, 5 & 6 Contacts
- Male housing
- Socket contacts
- Available in black



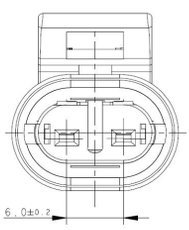
Part Number	Contacts	Termination	Colour
PX2000P01BK	1	Crimp	Black
PX2000P02BK	2	Crimp	Black
PX2000P03BK	3	Crimp	Black
PX2000P04BK	4	Crimp	Black
PX2000P05BK	5	Crimp	Black
PX2000P06BK	6	Crimp	Black

Automotive Rectangular Connector 1.5mm
Female Terminals



PX2001

- 1,2,3,4,5 & 6 Contacts
- Female housing
- Plug contacts
- Available in black



Part Number	Contacts	Termination	Colour
PX2001S01BK	1	Crimp	Black
PX2001S02BK	2	Crimp	Black
PX2001S03BK	3	Crimp	Black
PX2001S04BK	4	Crimp	Black
PX2001S05BK	5	Crimp	Black
PX2001S06BK	6	Crimp	Black

Automotive Rectangular Connectors

Contacts



SA1000

- Crimp plug & sockets
- Tin plated
- 1.5mm size Contacts

Part Number	Plating	AWG	Type	Plug / Socket
SA1022	Tin	13 - 15	Stamped	Plug
SA1023	Tin	13 - 15	Stamped	Socket
SA1024	Tin	15 - 18	Stamped	Plug
SA1025	Tin	15 - 18	Stamped	Socket
SA1026	Tin	20 - 22	Stamped	Plug
SA1027	Tin	20 - 22	Stamped	Socket

Seals



- Silicone seals
- Cavity diameter 5.5mm

Part Number	Description	Colour
SL0001	Rubber Plug Blanking Seal	Yellow
SL0002	Single Wire Seal 1.7mm to 2.4mm Cable	Yellow
SL0003	Single Wire Seal 2.5mm to 3.3mm Cable	Red
SL0004	Single Wire Seal 1.2mm to 1.6mm Cable	Green

Tooling



- Crimp tools available for solid and stamped contacts (closed and open barrel)

Part Number	Additional
10003	Crimping tool for Rectangular Connector stamped (open barrel) contacts - size 12, 16, and 20 - wire gauge 10-23 AWG
10004	Crimping tool for Rectangular Connector stamped (open barrel) contacts sealing hole - size 12, 16, and 20 - wire gauge 14-24 AWG

Automative Rectangular Connectors

Electrical:

Voltage:	21VDC
No Contacts:	1,2,3,4,5 & 6
Insulation Resistance:	>200MΩ
Voltage Rating:	24V DC
Operating Temperature Range:	-40°C to +125°C
Current Rating	14A

Mechanical:

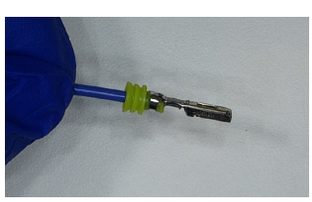
Sealing:	IP67 when mated
Contact Accommodation:	13-22 AWG (2.5-0.34mm2)
Termination:	Crimp terminals
Cycles:	>100
Contact Size:	1.5mm

Material

Grommet:	Silicone rubber
Seal:	Silicone rubber
Shell:	Rugged Glass Filled PBT
RoHS:	Compliant

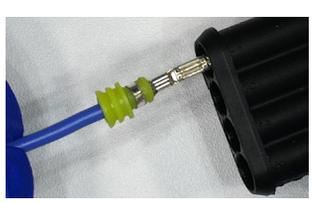
Contact Insertion Instructions

Step One:



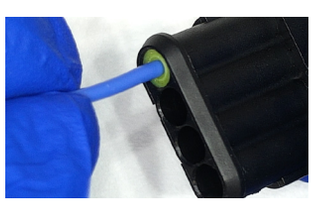
Use a previously crimped contact and wire and hold just behind the contact barrel.

Step Two:



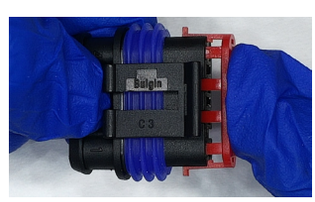
Line the contact up with the grommet.

Step Three:



Push the contact until a click is felt. Check the contact is in place by gently tugging and confirming alignment. Repeat for number of contacts desired

Step Four:

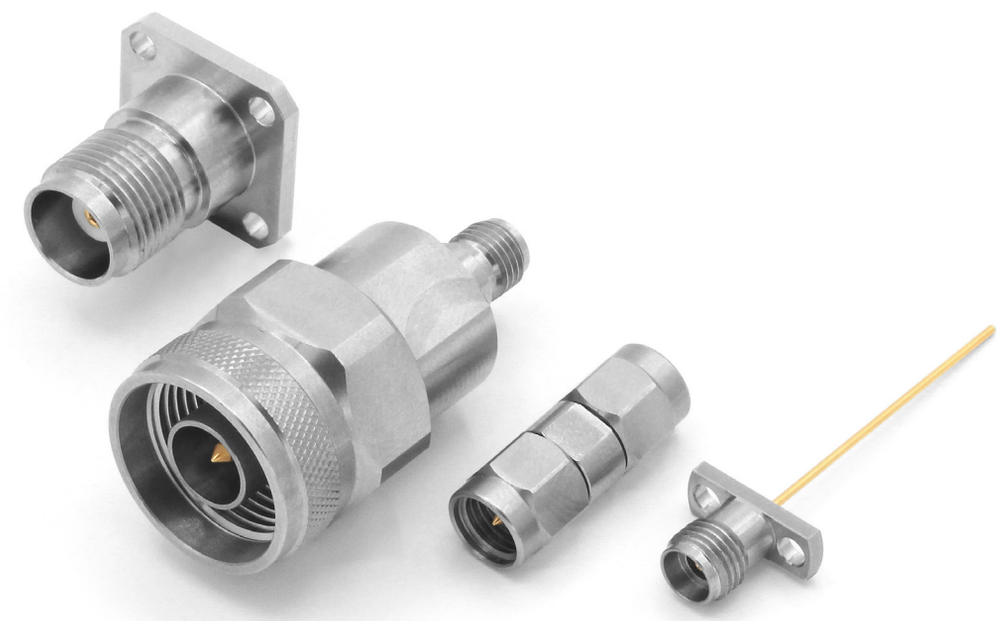


When contacts are in place, insert the appropriate wedgelock until a click is heard. Once male and female housings are prepared the parts can be mated

PX20	XX	X	XX	XX
Range	**Body Type**	**Contact Type**	**Contacts**	**Colour**
PX20	00 = 1.5mm Male Terminals	S = Socket	01	GY = Grey
	01 = 1.5mm Female Terminals	P = Plug	02	BK = Black
			03	
			04	
			05	
			06	

Radio Frequency (RF) Connectors

The Bulgin Radio Frequency (RF) connector range offers optimised solutions to work with a wide range of signals at various frequency levels with low losses. These connectors are expertly designed to work with coaxial cables to operate at multiple Gigahertz, offering protection and a standard shielding with coaxial hardware.



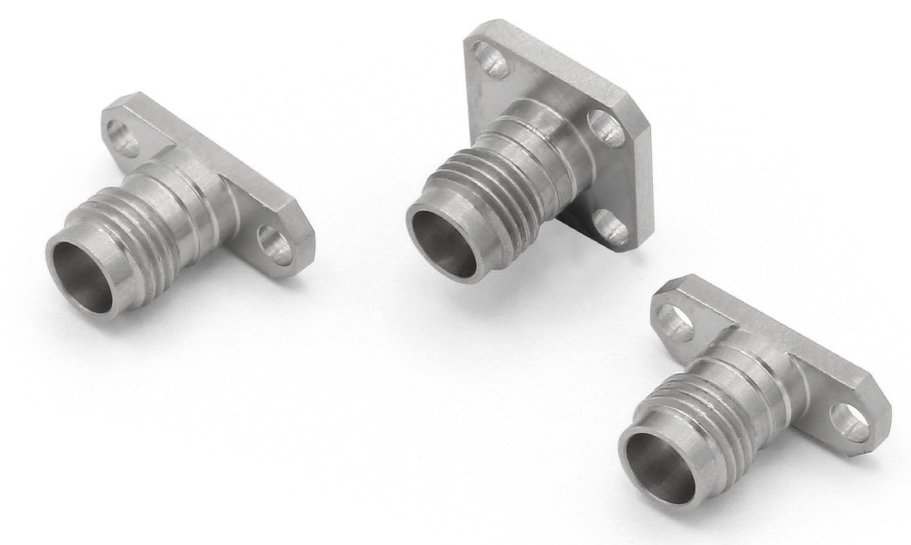
Key Features:

- 50-ohm Impedance
- Insulation resistance >5000MOhm
- Durability >500 Cycles
- Available in Male and Female Threads
- Available in Plug or Jack
- Beryllium Copper Contact Pin
- Body Material available in Stainless Steel Passivation and Brass with Gold Plating

1.85mm Series	309
2.40mm Series	312
2.92mm Series	317
N Type Series	324
SMA Series	328
SSMA Series	335
TNCA Series	339
RF Adapter Series	343
RF Termination Series	351

Our superior quality RF connectors with 1.85mm (V connector, V Type) interface are manufactured with beryllium copper contacts and stainless-steel connector bodies. Our 1.85mm connector provides mode free operation up to 65GHz.

The 1.85mm connectors have M7 threads and are mechanically compatible with 2.40mm connectors. Also known as “V connectors” they cover the V-band frequency. The 1.85mm connectors are used in a wide range of applications including Military, Aerospace, SATCOM, Test & Measurement etc.



Key Features:

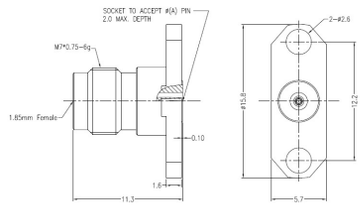
- 50-ohm Impedance
- Insulation resistance >5000MOhm
- Durability >500 Cycles
- Available in Male and Female Threads
- Available in Plug or Jack
- Beryllium Copper Contact Pin
- Body Material available in Stainless Steel Passivation.

1.85mm Series Flange Mount



RF185A2JEGA

- Max Voltage 150V
- Operating Temperature -40C to +85C
- Frequency Range 0-65GHz
- VSWR <1.30
- Dielectric withstanding Voltage >500V



Part Number	F2 or F4	Plug or Jack	Flange Mount Length	Mount Hole Distance	Socket Diameter
RF185A4JCCA	4	Jack	12.70mm	8.60mm	0.23mm
RF185A4JCCB	4	Jack	12.70mm	8.60mm	0.30mm
RF185A4PCCA	4	Plug	12.70mm	8.60mm	0.23mm
RF185A4PCCB	4	Plug	12.70mm	8.60mm	0.30mm
RF185A2JEGA	2	Jack	15.80mm	12.20mm	0.23mm
RF185A2JEGB	2	Jack	15.80mm	12.20mm	0.30mm

Electrical:

Insulation Resistance:	>5000MOhm
Impedance:	50Ohm
Centre Contact Resistance:	<4.0mOhms
Outer Contact Resistance:	<2.5mOhms

Mechanical:

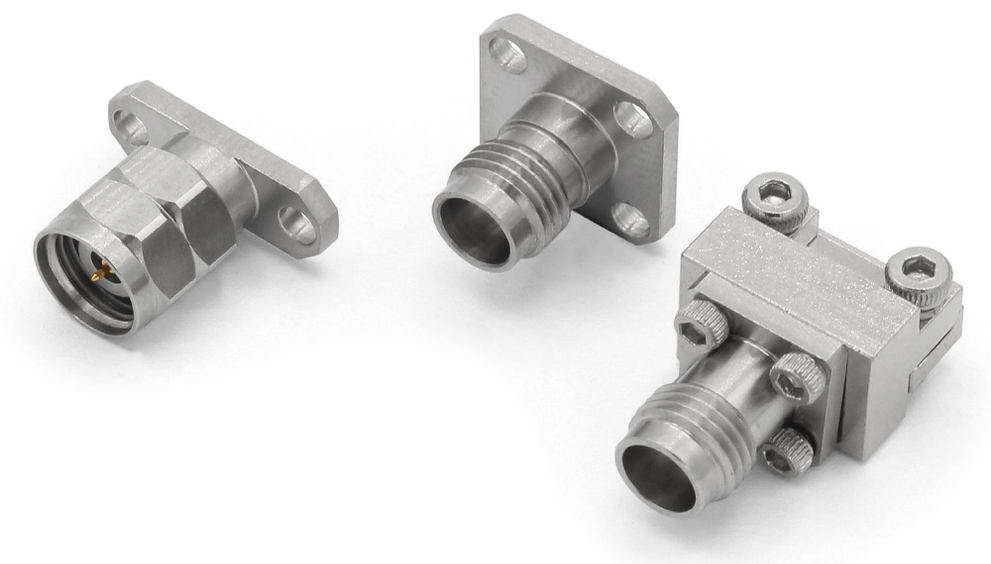
Centre Contact Retention:	>20N
Coupling Torque:	0.80Nm to 1.10Nm
Coupling Torque RPC N:	1.36Nm
Cycles:	>500

Material

Body:	Passivation of Stainless Steel
Contact:	Beryllium Copper
Insulator:	UNFILLED ULTEM 1000
RoHS:	Compliant

The 2.40mm series from the RF connector range form part of the wide ranging Radio Frequency interconnect mechanisms, with the 2.40mm connectors being more robust than the traditional SMA.

These connectors are accessible in standard polarity designs with bulkhead and mount-less categories. Available in both male and female versions, covering the frequency range up to 50GHz.



Key Features:

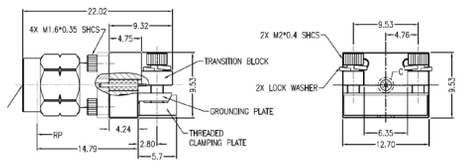
- 50-ohm Impedance
- Insulation resistance >5000MOhm
- Durability >500 Cycles
- Low Insertion Loss
- Available in Plug or Jack
- Beryllium Copper Contact Pin
- Screw-on Coupling Mechanism
- Body Material available in Stainless Steel Passivation

2.40mm Series End Launch Connector



RF240EJ

- Max Voltage 150V
- Operating Temperature -55C to +125C
- Frequency Range 0-50GHz
- VSWR <1.30
- Dielectric withstanding Voltage >500V
- Available with Extended PTFE



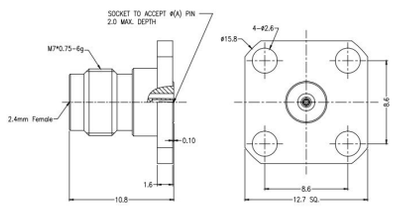
Part Number	Plug or Jack
RF240EJ	Jack
RF240EP	Plug

2.40mm Series Socket 4 Hole Flange



RF240A4JCCA

- Max Voltage 150V
- Operating Temperature -40C to +85C
- Frequency Range 0-50GHz
- VSWR <1.30
- Dielectric withstanding Voltage >500V
- Available with Extended PTFE



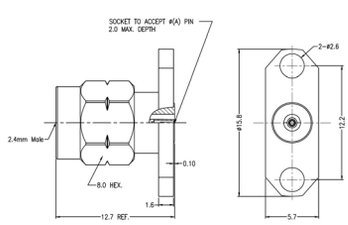
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Socket Diameter
RF240A4JCCA	Jack	12.70mm	8.60mm	0.23mm
RF240A4JCCB	Jack	12.70mm	8.60mm	0.30mm
RF240A4JCCE	Jack	12.70mm	8.60mm	0.51mm
RF240A4PCCA	Plug	12.70mm	8.60mm	0.23mm
RF240A4PCCB	Plug	12.70mm	8.60mm	0.30mm
RF240A4PCCE	Plug	12.70mm	8.60mm	0.51mm

2.40mm Series Socket 2 Hole Flange



RF240A2PEGA

- Max Voltage 150V
- Operating Temperature -40C to +85C
- Frequency Range 0-50GHz
- VSWR <1.30
- Dielectric withstanding Voltage >500V
- Available with Extended PTFE



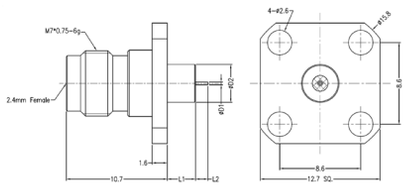
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Socket Diameter
RF240A2JEGA	Jack	15.80mm	12.20mm	0.23mm
RF240A2JEGB	Jack	15.80mm	12.20mm	0.30mm
RF240A2JEGE	Jack	15.80mm	12.20mm	0.51mm
RF240A2PEGA	Plug	15.80mm	12.20mm	0.23mm
RF240A2PEGB	Plug	15.80mm	12.20mm	0.30mm
RF240A2PEGE	Plug	15.80mm	12.20mm	0.51mm

2.40mm Series Pin with Extended PTFE 4 Hole Flange



RF240A4JCCADGA

- Max Voltage 150V
- Operating Temperature -40C to +85C
- Frequency Range 0-50GHz
- VSWR <1.30
- Dielectric withstanding Voltage >500V
- Available with Extended PTFE
- Flange Mount Length 12.70mm
- Mount Hole Distance 8.60mm



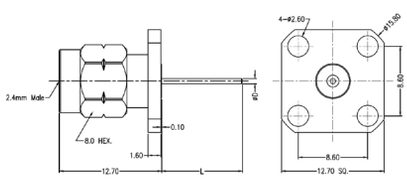
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Dia	Extended PTFE Length
RF240A4JCCADGA	Jack	0.30mm	1.50mm	4.00mm	1.40mm
RF240A4JCCADGB	Jack	0.30mm	1.50mm	4.00mm	3.00mm
RF240A4JCCADAA	Jack	0.30mm	1.50mm	1.67mm	1.40mm
RF240A4JCCADAB	Jack	0.30mm	1.50mm	1.67mm	3.00mm
RF240A4JCCCCBG	Jack	0.60mm	1.27mm	2.00mm	6.35mm
RF240A4JCCCEBF	Jack	0.60mm	1.90mm	2.00mm	5.10mm

2.40mm Series Pin without Extended PTFE 4 Hole Flange



RF240A4PCCGM

- Max Voltage 150V
- Operating Temperature -40C to +85C
- Frequency Range 0-50GHz
- VSWR <1.30
- Dielectric withstanding Voltage >500V
- Available with Extended PTFE



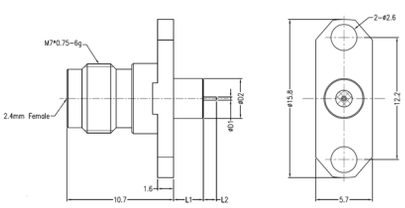
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Pin Diameter	Pin Length
RF240A4JCCKG	Jack	12.70mm	8.60mm	1.20mm	3.00mm
RF240A4JCCJJ	Jack	12.70mm	8.60mm	1.04mm	6.34mm
RF240A4JCCII	Jack	12.70mm	8.60mm	1.00mm	5.50mm
RF240A4JCCGM	Jack	12.70mm	8.60mm	0.86mm	8.75mm
RF240A4JCCEN	Jack	12.70mm	8.60mm	0.75mm	9.00mm
RF240A4JCCDK	Jack	12.70mm	8.60mm	0.64mm	6.84mm
RF240A4JCCDO	Jack	12.70mm	8.60mm	0.64mm	10.00mm
RF240A4PCCGM	Plug	12.70mm	8.60mm	0.86mm	8.75mm
RF240A4PCCDO	Plug	12.70mm	8.60mm	0.64mm	10.00mm

2.40mm Series Pin with Extended PTFE 2 Hole Flange



RF240A2JEGADAA

- Max Voltage 150V
- Operating Temperature -40C to +85C
- Frequency Range 0-50GHz
- VSWR <1.30
- Dielectric withstanding Voltage >500V
- Available with Extended PTFE
- Flange Mount Length 15.80mm
- Mount Hole Distance 12.20mm



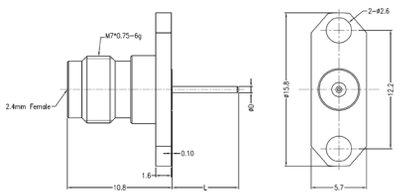
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Dia	Extended PTFE Length
RF240A2JEGADGA	Jack	0.30mm	1.50mm	4.00mm	1.40mm
RF240A2JEGADGB	Jack	0.30mm	1.50mm	4.00mm	3.00mm
RF240A2JEGADAA	Jack	0.30mm	1.50mm	1.67mm	1.40mm
RF240A2JEGADAB	Jack	0.30mm	1.50mm	1.67mm	3.00mm
RF240A2JEGCCBG	Jack	0.60mm	1.27mm	2.00mm	6.35mm
RF240A2JEGCEBF	Jack	0.60mm	1.90mm	2.00mm	5.10mm

2.40mm Series Pin without Extended PTFE 2 Hole Flange



RF240A2PEGGM

- Max Voltage 150V
- Operating Temperature -40C to +85C
- Frequency Range 0-50GHz
- VSWR <1.30
- Dielectric withstanding Voltage >500V
- Available with Extended PTFE



Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Pin Diameter	Pin Length
RF240A2JEGKG	Jack	15.80mm	12.20mm	1.20mm	3.00mm
RF240A2JEGJJ	Jack	15.80mm	12.20mm	1.04mm	6.34mm
RF240A2JEGII	Jack	15.80mm	12.20mm	1.00mm	5.50mm
RF240A2JEGGM	Jack	15.80mm	12.20mm	0.86mm	8.75mm
RF240A2JEGEN	Jack	15.80mm	12.20mm	0.75mm	9.00mm
RF240A2JEGDK	Jack	15.80mm	12.20mm	0.64mm	6.84mm
RF240A2JEGDO	Jack	15.80mm	12.20mm	0.64mm	10.00mm
RF240A2PEGGM	Plug	15.80mm	12.20mm	0.86mm	8.75mm
RF240A2PEGDO	Plug	15.80mm	12.20mm	0.64mm	10.00mm

2.40mm Series

Electrical:

Insulation Resistance:	>5000MOhm
Impedance:	50Ohm
Centre Contact Resistance:	<4.0mOhms
Outer Contact Resistance:	<2.5mOhms

Mechanical:

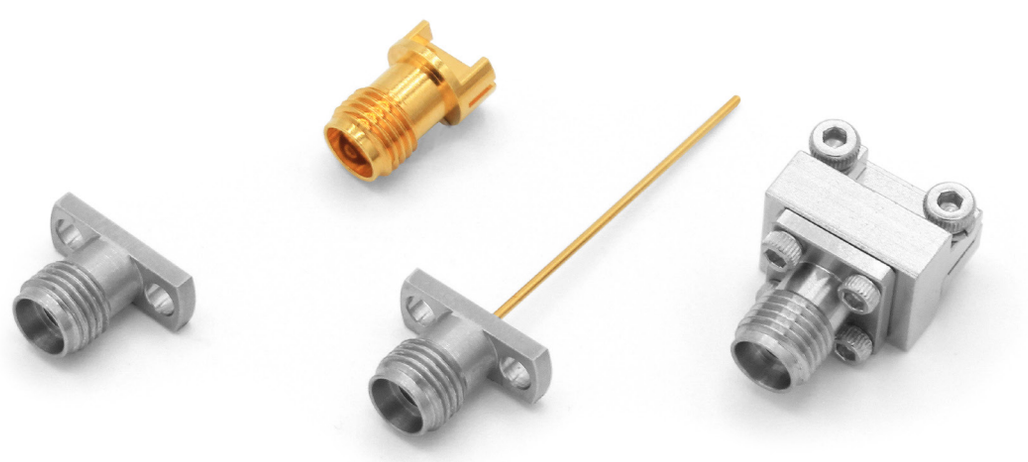
Centre Contact Retention:	>20N
Coupling Torque:	0.80Nm to 1.10Nm
Coupling Torque RPC N:	1.36Nm
Cycles:	>500

Material

Body:	Passivation of Stainless Steel
Contact:	Beryllium Copper
Insulator:	UNFILLED ULTEM 1000
RoHS:	Compliant

The 2.92mm (K) connector range operate mode-free up to 40GHz and are ideal for high-frequency module and T&M applications. These connectors are also known as K connector, K Type, SMK adapter.

Bulgin's High-quality 2.92mm connectors are constructed with beryllium copper contacts, brass or stainless-steel bodies. These connectors have a thicker wall than a standard SMA and also mate with the SMA and 3.50mm connector offerings.



Key Features:

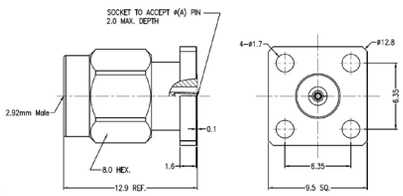
- 50-ohm Impedance
- Insulation resistance >5000MOhm
- Durability >500 Cycles
- Available in Male and Female Threads
- Available in Plug or Jack
- Beryllium Copper Contact Pin
- Body Material available in Stainless Steel Passivation and Brass

2.92mm Series Socket 4 Hole Flange



RF292A4PAAE

- Max Voltage 250V
- Operating Temperature -40C to +85C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Available with Extended PTFE



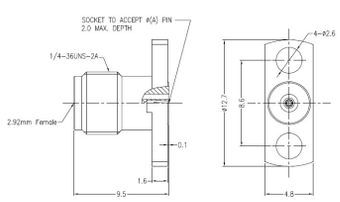
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Socket Diameter
RF292A4JCCA	Jack	12.70mm	8.60mm	0.23mm
RF292A4JCCB	Jack	12.70mm	8.60mm	0.30mm
RF292A4JCCC	Jack	12.70mm	8.60mm	0.38mm
RF292A4JCCE	Jack	12.70mm	8.60mm	0.51mm
RF292A4JAAA	Jack	9.50mm	6.35mm	0.23mm
RF292A4JAAB	Jack	9.50mm	6.35mm	0.30mm
RF292A4JAAC	Jack	9.50mm	6.35mm	0.38mm
RF292A4JAAE	Jack	9.50mm	6.35mm	0.51mm
RF292A4PCCA	Plug	12.70mm	8.60mm	0.23mm
RF292A4PCCB	Plug	12.70mm	8.60mm	0.30mm
RF292A4PCCC	Plug	12.70mm	8.60mm	0.38mm
RF292A4PCCE	Plug	12.70mm	8.60mm	0.51mm
RF292A4PAAA	Plug	9.50mm	6.35mm	0.23mm
RF292A4PAAB	Plug	9.50mm	6.35mm	0.30mm
RF292A4PAAC	Plug	9.50mm	6.35mm	0.38mm
RF292A4PAAE	Plug	9.50mm	6.35mm	0.51mm

2.92mm Series Socket 2 Hole Flange



RF292A2JCCA

- Max Voltage 250V
- Operating Temperature -40C to +85C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Available with Extended PTFE



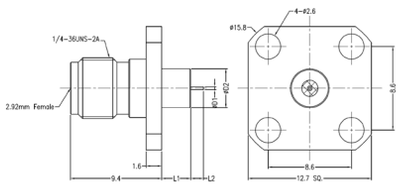
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Socket Diameter
RF292A2JEGA	Jack	15.80mm	12.20mm	0.23mm
RF292A2JEGB	Jack	15.80mm	12.20mm	0.30mm
RF292A2JEGC	Jack	15.80mm	12.20mm	0.38mm
RF292A2JEGE	Jack	15.80mm	12.20mm	0.51mm
RF292A2JCCA	Jack	12.70mm	8.60mm	0.23mm
RF292A2JCCB	Jack	12.70mm	8.60mm	0.30mm
RF292A2JCCC	Jack	12.70mm	8.60mm	0.38mm
RF292A2JCCE	Jack	12.70mm	8.60mm	0.51mm
RF292A2JDFA	Jack	14.00mm	10.20mm	0.23mm
RF292A2JDFB	Jack	14.00mm	10.20mm	0.30mm
RF292A2JDFC	Jack	14.00mm	10.20mm	0.38mm
RF292A2JDFE	Jack	14.00mm	10.20mm	0.51mm
RF292A2PEGA	Plug	15.80mm	12.20mm	0.23mm
RF292A2PEGB	Plug	15.80mm	12.20mm	0.30mm
RF292A2PEGC	Plug	15.80mm	12.20mm	0.38mm
RF292A2PEGE	Plug	15.80mm	12.20mm	0.51mm
RF292A2PCEA	Plug	12.70mm	8.90mm	0.23mm
RF292A2PCEB	Plug	12.70mm	8.90mm	0.30mm
RF292A2PCEC	Plug	12.70mm	8.90mm	0.38mm
RF292A2PCEE	Plug	12.70mm	8.90mm	0.51mm

2.92mm Series Pin with Extended PTFE 4 Hole Flange



RF292A2JCCADGA

- Max Voltage 250V
- Operating Temperature -40C to +85C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Available with Extended PTFE
- Flange Mount Length 12.70mm
- Mount Hole Distance 8.60mm



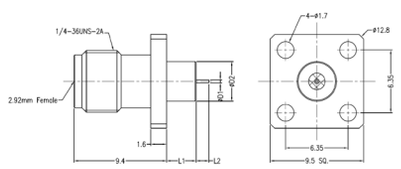
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Dia	Extended PTFE Length
RF292A4JCCADGA	Jack	0.30mm	1.50mm	4.00mm	1.40mm
RF292A4JCCADGB	Jack	0.30mm	1.50mm	4.00mm	3.00mm
RF292A4JCCCCGH	Jack	0.60mm	1.27mm	4.00mm	10.10mm
RF292A4JCCADAA	Jack	0.30mm	1.50mm	1.67mm	1.40mm
RF292A4JCCADAB	Jack	0.30mm	1.50mm	1.67mm	3.00mm

2.92mm Series Pin with Extended PTFE 4 Hole Flange



RF292A2JAAADGA

- Max Voltage 250V
- Operating Temperature -40C to +85C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Available with Extended PTFE
- Flange Mount Length 9.50mm
- Mount Hole Distance 6.35 mm



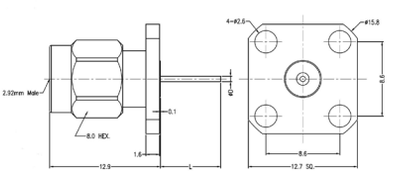
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Dia	Extended PTFE Length
RF292A4JAAADGA	Jack	0.30mm	1.50mm	4.00mm	1.40mm
RF292A4JAAADGB	Jack	0.30mm	1.50mm	4.00mm	3.00mm
RF292A4JAACCGH	Jack	0.60mm	1.27mm	4.00mm	10.10mm
RF292A4JAAADAA	Jack	0.30mm	1.50mm	1.67mm	1.40mm
RF292A4JAAADAB	Jack	0.30mm	1.50mm	1.67mm	3.00mm

2.92mm Series Pin without Extended PTFE 4 Hole Flange



RF292A4PCCDK

- Max Voltage 250V
- Operating Temperature -40C to +85C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Available with Extended PTFE



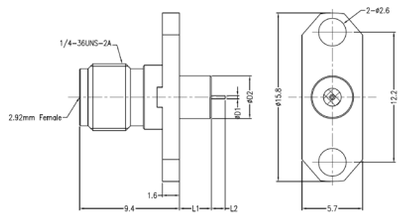
Part Number	Plug or Jack	Flange Mount Length	Pin Diameter	Pin Length
RF292A4JCCAL	Jack	12.70mm	0.30mm	7.00mm
RF292A4JCCDK	Jack	12.70mm	0.64mm	6.84mm
RF292A4JCCDP	Jack	12.70mm	0.64mm	10.92mm
RF292A4JCCES	Jack	12.70mm	0.75mm	30.00mm
RF292A4JAAAL	Jack	9.50mm	0.30mm	7.00mm
RF292A4JAADK	Jack	9.50mm	0.64mm	6.84mm
RF292A4JAADP	Jack	9.50mm	0.64mm	10.92mm
RF292A4JAAES	Jack	9.50mm	0.75mm	30.00mm
RF292A4PCCDK	Plug	12.70mm	0.64mm	6.84mm
RF292A4PCCDP	Plug	12.70mm	0.64mm	10.92mm
RF292A4PAADK	Plug	9.50mm	0.64mm	6.84mm
RF292A4PAADP	Plug	9.50mm	0.64mm	10.92mm

2.92mm Series Pin with Extended PTFE 2 Hole Flange



RF292A2JEGADGA

- Max Voltage 250V
- Operating Temperature -40C to +85C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Available with Extended PTFE
- Flange Mount Length 15.80mm
- Mount Hole Distance 12.20mm



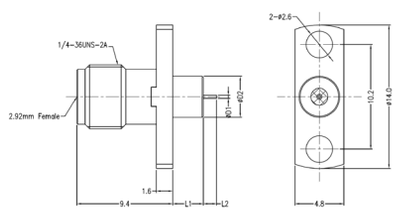
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Dia	Extended PTFE Length
RF292A2JEGADGA	Jack	0.30mm	1.50mm	4.00mm	1.40mm
RF292A2JEGADGB	Jack	0.30mm	1.50mm	4.00mm	3.00mm
RF292A2JEGCCGH	Jack	0.60mm	1.27mm	4.00mm	10.10mm
RF292A2JEGADAA	Jack	0.30mm	1.50mm	1.67mm	1.40mm
RF292A2JEGADAB	Jack	0.30mm	1.50mm	1.67mm	3.00mm

2.92mm Series Pin with Extended PTFE 2 Hole Flange



RF292A2JDFADGA

- Max Voltage 250V
- Operating Temperature -40C to +85C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Available with Extended PTFE
- Flange Mount Length 14.00mm
- Mount Hole Distance 10.20mm



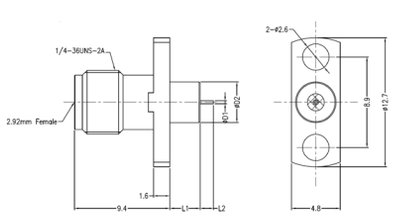
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Dia	Extended PTFE Length
RF292A2JDFADGA	Jack	0.30mm	1.50mm	4.00mm	1.40mm
RF292A2JDFADGB	Jack	0.30mm	1.50mm	4.00mm	3.00mm
RF292A2JDFCCGH	Jack	0.60mm	1.27mm	4.00mm	10.10mm
RF292A2JDFADAA	Jack	0.30mm	1.50mm	1.67mm	1.40mm
RF292A2JDFADAB	Jack	0.30mm	1.50mm	1.67mm	3.00mm

2.92mm Series Pin with Extended PTFE 2 Hole Flange



RF292A2JCEADGA

- Max Voltage 250V
- Operating Temperature -40C to +85C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Available with Extended PTFE
- Flange Mount Length 12.70mm
- Mount Hole Distance 8.90mm



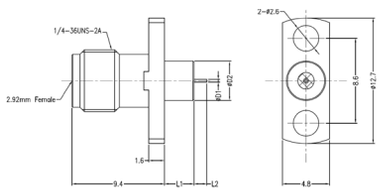
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Dia	Extended PTFE Length
RF292A2JCEADGA	Jack	0.30mm	1.50mm	4.00mm	1.40mm
RF292A2JCEADGB	Jack	0.30mm	1.50mm	4.00mm	3.00mm
RF292A2JCECCGH	Jack	0.60mm	1.27mm	4.00mm	10.10mm
RF292A2JCEADAA	Jack	0.30mm	1.50mm	1.67mm	1.40mm
RF292A2JCEADAB	Jack	0.30mm	1.50mm	1.67mm	3.00mm

2.92mm Series Pin with Extended PTFE 2 Hole Flange



RF292A2JCCADGA

- Max Voltage 250V
- Operating Temperature -40C to +85C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Available with Extended PTFE
- Flange Mount Length 12.70mm
- Mount Hole Distance 8.60mm



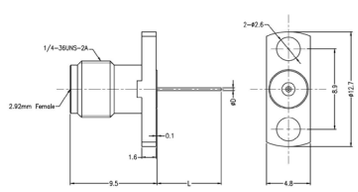
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Dia	Extended PTFE Length
RF292A2JCCADGA	Jack	0.30mm	1.50mm	4.00mm	1.40mm
RF292A2JCCADGB	Jack	0.30mm	1.50mm	4.00mm	3.00mm
RF292A2JCCCCGH	Jack	0.60mm	1.27mm	4.00mm	10.10mm
RF292A2JCCADAA	Jack	0.30mm	1.50mm	1.67mm	1.40mm
RF292A2JCCADAB	Jack	0.30mm	1.50mm	1.67mm	3.00mm

2.92mm Series Pin without Extended PTFE 2 Hole Flange



RF292A2JEGAL

- Max Voltage 250V
- Operating Temperature -40C to +85C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Available with Extended PTFE



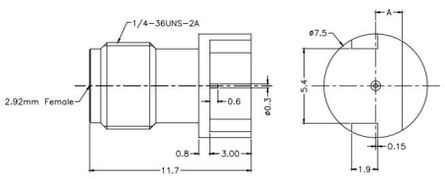
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Pin Diameter	Pin Length
RF292A2JEGAL	Jack	15.80mm	12.20mm	0.30mm	7.00mm
RF292A2JEGDK	Jack	15.80mm	12.20mm	0.64mm	6.84mm
RF292A2JEGDP	Jack	15.80mm	12.20mm	0.64mm	10.92mm
RF292A2JEGES	Jack	15.80mm	12.20mm	0.75mm	30.00mm
RF292A2JCCAL	Jack	12.70mm	8.60mm	0.30mm	7.00mm
RF292A2JCCDK	Jack	12.70mm	8.60mm	0.64mm	6.84mm
RF292A2JCCDP	Jack	12.70mm	8.60mm	0.64mm	10.92mm
RF292A2JCCES	Jack	12.70mm	8.60mm	0.75mm	30.00mm
RF292A2JDFAL	Jack	14.00mm	10.20mm	0.30mm	7.00mm
RF292A2JDFDK	Jack	14.00mm	10.20mm	0.64mm	6.84mm
RF292A2JDFDP	Jack	14.00mm	10.20mm	0.64mm	10.92mm
RF292A2JDFES	Jack	14.00mm	10.20mm	0.75mm	30.00mm
RF292A2JCEAL	Jack	12.70mm	8.90mm	0.30mm	7.00mm
RF292A2JCEDK	Jack	12.70mm	8.90mm	0.64mm	6.84mm
RF292A2JCEDP	Jack	12.70mm	8.90mm	0.64mm	10.92mm
RF292A2JCEES	Jack	12.70mm	8.90mm	0.75mm	30.00mm
RF292A2PEGDK	Plug	15.80mm	12.20mm	0.64mm	6.84mm
RF292A2PEGDP	Plug	15.80mm	12.20mm	0.64mm	10.92mm
RF292A2PDFDK	Plug	14.00mm	10.20mm	0.64mm	6.84mm
RF292A2PDFDP	Plug	14.00mm	10.20mm	0.64mm	10.92mm
RF292A2PCEDK	Plug	12.70mm	8.90mm	0.64mm	6.84mm
RF292A2PCEDP	Plug	12.70mm	8.90mm	0.64mm	10.92mm

2.92mm Series Edge Launch Connector



RF292CP

- Max Voltage 250V
- Operating Temperature -40C to +85C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Only available in Brass with Gold Plating



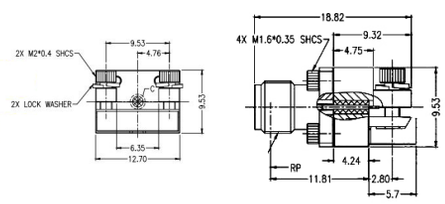
Part Number	Plug or Jack	PCB Thickness
RF292CPA	Plug	0.61mm
RF292CPB	Plug	0.87mm
RF292CPC	Plug	1.78mm
RF292CPD	Plug	1.88mm

2.92mm Series End Launch Connector



RF292EJ

- Max Voltage 250V
- Operating Temperature -55C to +125C
- Frequency Range 0-40GHz
- VSWR <1.50
- Dielectric withstanding Voltage >750V



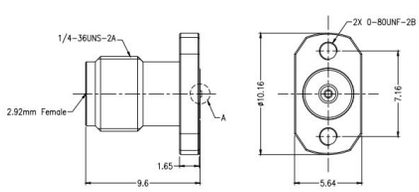
Part Number	Plug or Jack
RF292EJ	Jack
RF292EP	Plug

2.92mm Series Compression Mount Connector



RF292DJB

- Max Voltage 250V
- Operating Temperature -55C to +125C
- Frequency Range 0-40GHz
- VSWR <1.25
- Dielectric withstanding Voltage >750V



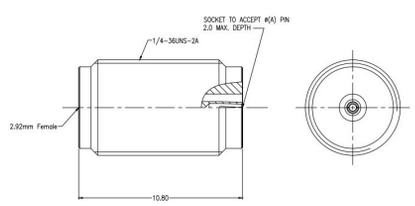
Part Number	Plug or Jack	Stripline or Microstrip Line
RF292DJB	Jack	Stripline
RF292DJA	Jack	Microstrip Line

2.92mm Series Straight Connector



RF292AJA

- Max Voltage 250V
- Operating Temperature -65C to +165C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V



Part Number	Plug or Jack	Flange Mount Length	STA 142, UFB, GORE, 1401
RF292AJA	Jack	0.23mm	-
RF292AJB	Jack	0.30mm	-
RF292AJC	Jack	0.38mm	-
RF292AJE	Jack	0.51mm	-
RF292APG	Plug	-	Yes
RF292AJG	Jack	-	Yes

2.92mm Series

Electrical:

Insulation Resistance:	>5000MOhm
Impedance:	50Ohm
Centre Contact Resistance:	<3.0mOhms
Outer Contact Resistance:	<2.0mOhms

Mechanical:

Centre Contact Retention:	>20N
Coupling Torque:	0.80Nm to 1.10Nm
Coupling Torque RPC N:	1.36Nm
Cycles:	>500

Material

Body:	Passivation of Stainless Steel, Brass with Gold plating
Contact:	Beryllium Copper
Insulator:	UNFILLED ULTEM 1000
RoHS:	Compliant

Our RF N-Type connector range features a threaded coupling mechanism and are fully interchangeable. These connectors are used in all systems where excellent Radio Frequency connections and mechanical performance is critical. The N-Type connector range meets many customer application demands, including models that support up to 18GHz.

Available for a wide range of coaxial cables including low loss types. Plug versions are also available in straight, right angle and jack versions along with panel mount and bulkhead mount variations.



Key Features:

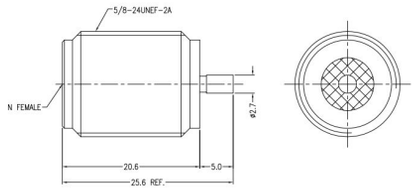
- 50-ohm Impedance
- Insulation resistance >5000MOhm
- Durability >500 Cycles
- Mode free Frequency up to 11 GHz (some Type-N Connectors can also operate up to 18 GHz)
- Available in Plug or Jack
- Beryllium Copper Contact Pin
- Body Material available in Stainless Steel Passivation

N Type Series Bulkhead



RFNAJNH

- Max Voltage 500V
- Operating Temperature -55C to +155C
- Frequency Range 0-18GHz
- VSWR <1.30
- Dielectric withstanding Voltage >1500V



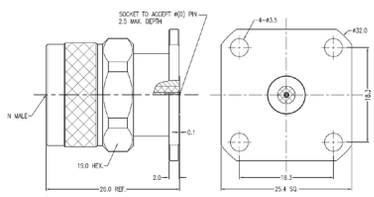
Part Number	Plug or Jack	Pin Diameter	Pin Length
RFNAJNH	Jack	2.70mm	5.00mm

N Type Series Socket 4 Hole Flange



RFNA4PGIF

- Max Voltage 500V
- Operating Temperature -55C to +155C
- Frequency Range 0-18GHz
- VSWR <1.30
- Dielectric withstanding Voltage >1500V
- Available with Extended PTFE



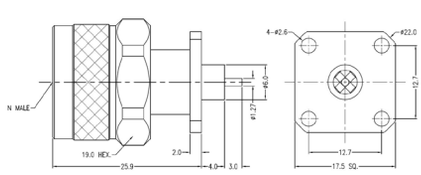
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Socket Diameter
RFNA4JGID	Jack	25.40mm	18.30mm	0.46mm
RFNA4JGIE	Jack	25.40mm	18.30mm	0.51mm
RFNA4JGIF	Jack	25.40mm	18.30mm	0.91mm
RFNA4JFHD	Jack	17.50mm	12.70mm	0.46mm
RFNA4JFHE	Jack	17.50mm	12.70mm	0.51mm
RFNA4JFHF	Jack	17.50mm	12.70mm	0.91mm
RFNA4JCCD	Jack	12.70mm	8.60mm	0.46mm
RFNA4JCCE	Jack	12.70mm	8.60mm	0.51mm
RFNA4JCCF	Jack	12.70mm	8.60mm	0.91mm
RFNA4PGID	Plug	25.40mm	18.30mm	0.46mm
RFNA4PGIE	Plug	25.40mm	18.30mm	0.51mm
RFNA4PGIF	Plug	25.40mm	18.30mm	0.91mm
RFNA4PFHD	Plug	17.50mm	12.70mm	0.46mm
RFNA4PFHE	Plug	17.50mm	12.70mm	0.51mm
RFNA4PFHF	Plug	17.50mm	12.70mm	0.91mm
RFNA4PCCD	Plug	12.70mm	8.60mm	0.46mm
RFNA4PCCE	Plug	12.70mm	8.60mm	0.51mm
RFNA4PCCF	Plug	12.70mm	8.60mm	0.91mm

N Type Series Pin with Extended PTFE 4 Hole



RFNA4PFHLGIE

- Max Voltage 500V
- Operating Temperature -55C to +155C
- requency Range 0-18GHz
- VSWR <1.30
- Dielectric withstanding Voltage >1500V
- Available with Extended PTFE



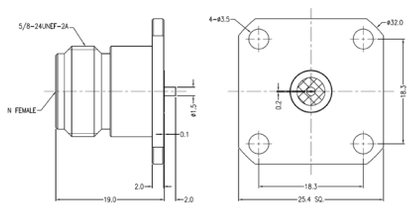
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Extended PTFE Dia	Extended PTFE Length
RFNA4JGILGIE	Jack	25.40mm	18.30mm	6.00mm	4.00mm
RFNA4JFHLGIE	Jack	17.50mm	12.70mm	6.00mm	4.00mm
RFNA4JCCLGIE	Jack	12.70mm	8.60mm	6.00mm	4.00mm
RFNA4PGILGIE	Plug	25.40mm	18.30mm	6.00mm	4.00mm
RFNA4PFHLGIE	Plug	17.50mm	12.70mm	6.00mm	4.00mm
RFNA4JGILGIE	Jack	25.40mm	18.30mm	6.00mm	4.00mm

N Type Series Pin without Extended PTFE 4 Hole Flange



RFNA4JGIMF

- Max Voltage 500V
- Operating Temperature -55C to +155C
- Frequency Range 0-18GHz
- VSWR <1.30
- Dielectric withstanding Voltage >1500V
- Available with Extended PTFE



Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Pin Diameter	Pin Length
RFNA4JGIMF	Jack	25.40mm	18.30mm	1.50mm	2.00mm
RFNA4JFHMF	Jack	17.50mm	12.70mm	1.50mm	2.00mm
RFNA4JCCMF	Jack	12.70mm	8.60mm	1.50mm	2.00mm
RFNA4PGIMF	Plug	25.40mm	18.30mm	1.50mm	2.00mm
RFNA4PFHMF	Plug	17.50mm	12.70mm	1.50mm	2.00mm

Electrical:

Insulation Resistance:	>5000MOhm
Impedance:	50Ohm
Centre Contact Resistance:	<1.0mOhms
Outer Contact Resistance:	<0.2mOhms

Mechanical:

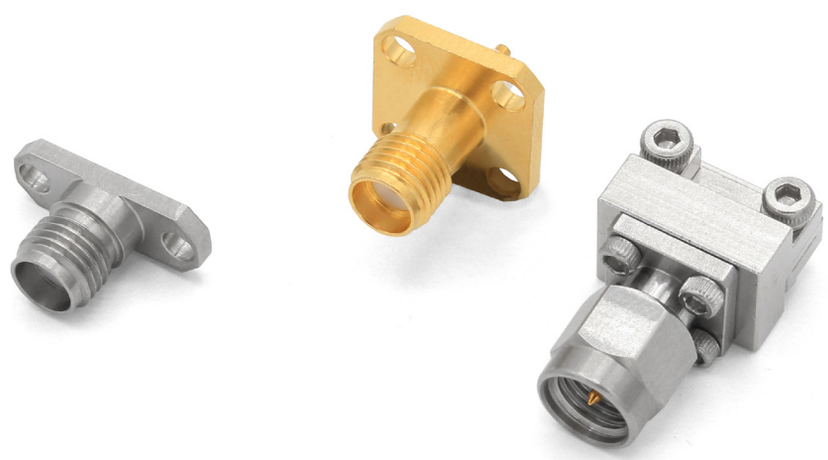
Centre Contact Retention:	>20N
Coupling Torque:	0.80Nm to 1.10Nm
Coupling Torque RPC N:	1.36Nm
Cycles:	>500

Material

Body:	Passivation of Stainless Steel
Contact:	Beryllium Copper
Insulator:	UNFILLED ULTEM 1000/PEI
RoHS:	Compliant

Our SMA connector range are semi-precision and offer a 50 ohms impedance and a 0.25 - 36 threaded coupling. Offering high performance all within a compact SMA (Sub Miniature version A) connector design, frequently used as standard for antennas, devices and various medical applications.

These domestic connectors are also known as F type coaxial connectors and have a 50ohms impedance. Moreover, these sub-miniature sizes are also used in relatively small items of electronic equipment. Typically, 500 mating cycles, but care is needed to keep the mating surfaces clean.



Key Features:

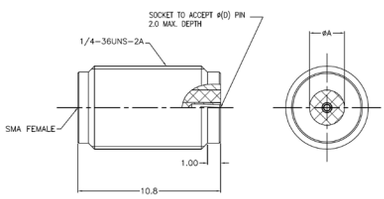
- 50-ohm Impedance
- Insulation resistance >5000MOhm
- Durability >500 Cycles
- Available in Male and Female Threads
- Available in Plug or Jack
- Beryllium Copper Contact Pin
- Body Material available in Stainless Steel Passivation and Brass

SMA Series Bulkhead



RFSMAAJA

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-26.5GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V



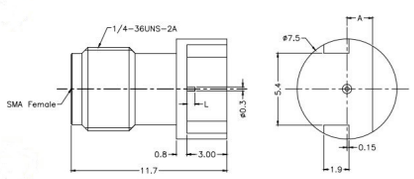
Part Number	Plug or Jack	Socket Diameter
RFSMAAJA	Jack	0.23mm
RFSMAAJB	Jack	0.30mm
RFSMAAJC	Jack	0.38mm
RFSMAAJD	Jack	0.46mm
RFSMAAJE	Jack	0.51mm
RFSMAAJA	Jack	0.23mm

SMA Series Edge Launch Connector



RFSMACJAAA

- Max Voltage 335V
- Operating Temperature -55C to +155C
- Frequency Range 0-26.5GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Only available in Brass with 10u" Gold Plating



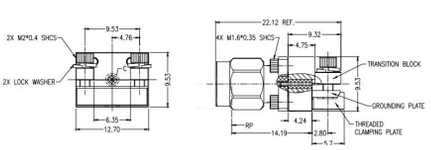
Part Number	Plug or Jack	Pin Diameter	Pin Length	PCB Thickness
RFSMACJAAA	Jack	0.30mm	0.60mm	0.61mm
RFSMACJAAB	Jack	0.30mm	0.60mm	0.87mm
RFSMACJAAC	Jack	0.30mm	0.60mm	1.78mm
RFSMACJABA	Jack	0.30mm	1.22mm	0.61mm
RFSMACJABB	Jack	0.30mm	1.22mm	0.87mm
RFSMACJABC	Jack	0.30mm	1.22mm	1.78mm

SMA Series End Launch Connector



RFSMAEP

- Max Voltage 335V
- Operating Temperature -55C to +155C
- Frequency Range 0-26.5GHz
- VSWR <1.40
- Dielectric withstanding Voltage >750V



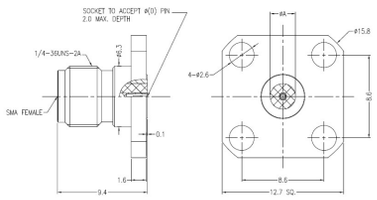
Part Number	Plug or Jack
RFSMAEJ	Jack
RFSMAEP	Plug

SMA Series Socket 4 Hole Flange



RFSMAA4JCCA

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-26.5GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V



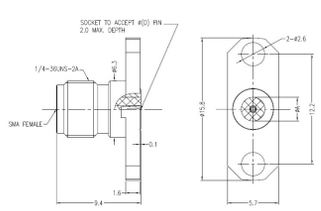
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Socket Diameter
RFSMAA4JCCA	Jack	12.70mm	8.60mm	0.23mm
RFSMAA4JCCB	Jack	12.70mm	8.60mm	0.30mm
RFSMAA4JCCC	Jack	12.70mm	8.60mm	0.38mm
RFSMAA4JCCD	Jack	12.70mm	8.60mm	0.46mm
RFSMAA4JCCE	Jack	12.70mm	8.60mm	0.51mm
RFSMAA4JAAA	Jack	9.50mm	6.35mm	0.23mm
RFSMAA4JAAB	Jack	9.50mm	6.35mm	0.30mm
RFSMAA4JAAC	Jack	9.50mm	6.35mm	0.38mm
RFSMAA4JAAD	Jack	9.50mm	6.35mm	0.46mm
RFSMAA4JAAE	Jack	9.50mm	6.35mm	0.51mm
RFSMAA4PCCA	Plug	12.70mm	8.60mm	0.23mm
RFSMAA4PCCB	Plug	12.70mm	8.60mm	0.30mm
RFSMAA4PCCC	Plug	12.70mm	8.60mm	0.38mm
RFSMAA4PCCD	Plug	12.70mm	8.60mm	0.46mm
RFSMAA4PCCE	Plug	12.70mm	8.60mm	0.51mm
RFSMAA4PAAA	Plug	9.50mm	6.35mm	0.23mm
RFSMAA4PAAB	Plug	9.50mm	6.35mm	0.30mm
RFSMAA4PAAC	Plug	9.50mm	6.35mm	0.38mm
RFSMAA4PAAD	Plug	9.50mm	6.35mm	0.46mm
RFSMAA4PAAE	Plug	9.50mm	6.35mm	0.51mm

SMA Series Socket 2 Hole Flange:



RFSMAA2JEGA

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-26.5GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V



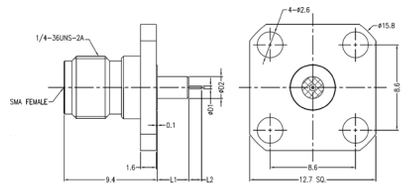
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Socket Diameter
RFSMAA2JEGA	Jack	15.80mm	12.20mm	0.23mm
RFSMAA2JEGB	Jack	15.80mm	12.20mm	0.30mm
RFSMAA2JEGC	Jack	15.80mm	12.20mm	0.38mm
RFSMAA2JEGD	Jack	15.80mm	12.20mm	0.46mm
RFSMAA2JEGE	Jack	15.80mm	12.20mm	0.51mm
RFSMAA2JCCA	Jack	12.70mm	8.60mm	0.23mm
RFSMAA2JCCB	Jack	12.70mm	8.60mm	0.30mm
RFSMAA2JCCC	Jack	12.70mm	8.60mm	0.38mm
RFSMAA2JCCD	Jack	12.70mm	8.60mm	0.46mm
RFSMAA2JCCE	Jack	12.70mm	8.60mm	0.51mm
RFSMAA2PEGA	Plug	15.80mm	12.20mm	0.23mm
RFSMAA2PEGB	Plug	15.80mm	12.20mm	0.30mm
RFSMAA2PEGC	Plug	15.80mm	12.20mm	0.38mm
RFSMAA2PEGD	Plug	15.80mm	12.20mm	0.46mm
RFSMAA2PEGE	Plug	15.80mm	12.20mm	0.51mm
RFSMAA2PCEA	Plug	12.70mm	8.90mm	0.23mm
RFSMAA2PCEB	Plug	12.70mm	8.90mm	0.30mm
RFSMAA2PCEC	Plug	12.70mm	8.90mm	0.38mm
RFSMAA2PCED	Plug	12.70mm	8.90mm	0.46mm
RFSMAA2PCEE	Plug	12.70mm	8.90mm	0.51mm

SMA Series Pin with Extended PTFE 4 Hole Flange



RFSMAA4JCCACDD

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-26.5GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Flange Mount Length 12.70mm
- Mount Hole Distance 8.60mm



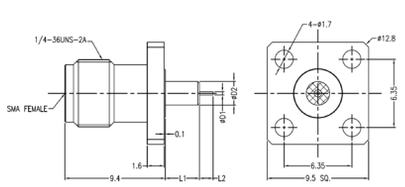
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Diameter	Extended PTFE Length
RFSMAA4JCCACDD	Jack	0.30mm	1.27mm	2.20mm	3.20mm
RFSMAA4JCCDGCI	Jack	0.64mm	3.00mm	2.10mm	15.00mm
RFSMAA4JCCDGFI	Jack	0.64mm	3.00mm	3.90mm	15.00mm
RFSMAA4JCCIDHB	Jack	1.00mm	1.50mm	4.10mm	3.00mm
RFSMAA4JCCIGHE	Jack	1.00mm	3.00mm	4.10mm	4.00mm
RFSMAA4JCCBFGB	Jack	0.38mm	2.00mm	4.00mm	3.00mm
RFSMAA4JCCBFGE	Jack	0.38mm	2.00mm	4.00mm	4.00mm
RFSMAA4PCCIDHE	Plug	1.00mm	1.50mm	4.10mm	4.00mm
RFSMAA4PCCBFGB	Plug	0.38mm	2.00mm	4.00mm	3.00mm

SMA Series Pin with Extended PTFE 4 Hole Flange



RFSMAA4JAAACDD

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-26.5GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Flange Mount Length 9.50mm
- Mount Hole Distance 6.35mm



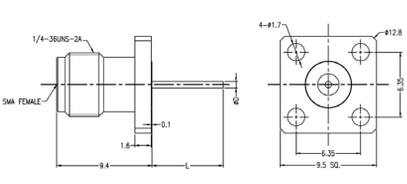
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Diameter	Extended PTFE Length
RFSMAA4JAAACDD	Jack	0.30mm	1.27mm	2.20mm	3.20mm
RFSMAA4JAADGCI	Jack	0.64mm	3.00mm	2.10mm	15.00mm
RFSMAA4JAABFGB	Jack	0.38mm	2.00mm	4.00mm	3.00mm
RFSMAA4JAAFFGE	Jack	0.80mm	2.00mm	4.00mm	4.00mm
RFSMAA4PAABFGB	Plug	0.38mm	2.00mm	4.00mm	3.00mm

SMA Series Pin without Extended PTFE 4 Hole Flange



RFSMAA4JAAHR

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-26.5GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V



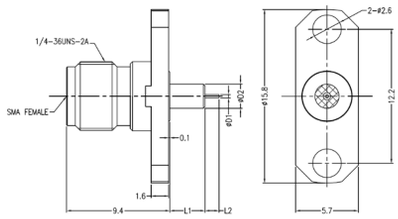
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Pin Diameter	Pin Length
RFSMAA4JCCDQ	Jack	12.70mm	8.60mm	0.64mm	18.00mm
RFSMAA4JCCHP	Jack	12.70mm	8.60mm	0.87mm	10.92mm
RFSMAA4JCCHR	Jack	12.70mm	8.60mm	0.87mm	26.00mm
RFSMAA4JAADQ	Jack	9.50mm	6.35mm	0.64mm	18.00mm
RFSMAA4JAAHP	Jack	9.50mm	6.35mm	0.87mm	10.92mm
RFSMAA4JAAHR	Jack	9.50mm	6.35mm	0.87mm	26.00mm

SMA Series Pin with Extended PTFE 2 Hole Flange



RFSMAA2JEGACDD

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-26.5GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Flange Mount Length 15.80mm
- Mount Hole Distance 12.20mm



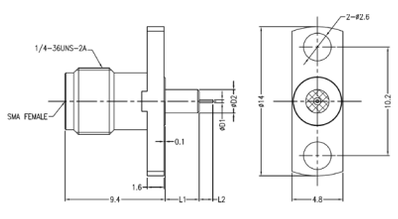
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Diameter	Extended PTFE Length
RFSMAA2JEGACDD	Jack	0.30mm	1.27mm	2.20mm	3.20mm
RFSMAA2JEGDGCI	Jack	0.64mm	3.00mm	2.10mm	15.00mm
RFSMAA2JEGDGFI	Jack	0.64mm	3.00mm	3.90mm	15.00mm
RFSMAA2JEGIDHB	Jack	1.00mm	1.50mm	4.10mm	3.00mm
RFSMAA2JEGIGHE	Jack	1.00mm	3.00mm	4.10mm	4.00mm
RFSMAA2JEGBFGB	Jack	0.38mm	2.00mm	4.00mm	3.00mm
RFSMAA2JEGFFGE	Jack	0.80mm	2.00mm	4.00mm	4.00mm
RFSMAA2PEGIDHE	Plug	1.00mm	1.50mm	4.10mm	4.00mm
RFSMAA2PEGBFGB	Plug	0.38mm	2.00mm	4.00mm	3.00mm

SMA Series Pin with Extended PTFE 2 Hole Flange



RFSMAA2JDFACDD

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-26.5GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Flange Mount Length 14.00mm
- Mount Hole Distance 10.20mm



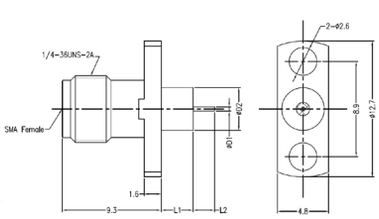
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Diameter	Extended PTFE Length
RFSMAA2JDFACDD	Jack	0.30mm	1.27mm	2.20mm	3.20mm
RFSMAA2JDFDGCI	Jack	0.64mm	3.00mm	2.10mm	15.00mm
RFSMAA2JDFBFGB	Jack	0.38mm	2.00mm	4.00mm	3.00mm
RFSMAA2JDFFFGE	Jack	0.80mm	2.00mm	4.00mm	4.00mm
RFSMAA2PDFBFGB	Plug	0.38mm	2.00mm	4.00mm	3.00mm

SMA Series Pin with Extended PTFE 2 Hole Flange



RFSMAA2JEGBFGB

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-26.5GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Flange Mount Length 12.70mm
- Mount Hole Distance 8.90mm



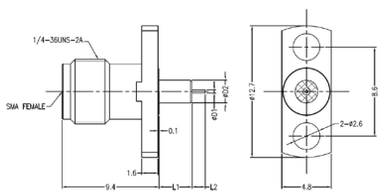
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Diameter	Extended PTFE Length
RFSMAA2JCEBFGB	Jack	0.38mm	2.00mm	4.00mm	3.00mm
RFSMAA2JCEFFGE	Jack	0.80mm	2.00mm	4.00mm	4.00mm
RFSMAA2PCEBFGB	Plug	0.38mm	2.00mm	4.00mm	3.00mm

SMA Series Pin with Extended PTFE 2 Hole Flange



RFSMAA2JCCACDD

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-26.5GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V
- Flange Mount Length 12.70mm
- Mount Hole Distance 8.60mm



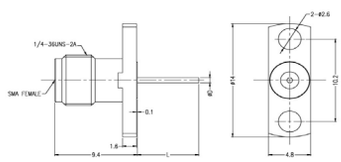
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Diameter	Extended PTFE Length
RFSMAA2JCCACDD	Jack	0.30mm	1.27mm	2.20mm	3.20mm
RFSMAA2JCCDGCI	Jack	0.64mm	3.00mm	2.10mm	15.00mm
RFSMAA2JCCDGFI	Jack	0.64mm	3.00mm	3.90mm	15.00mm
RFSMAA2JCCBFGB	Jack	0.38mm	2.00mm	4.00mm	3.00mm
RFSMAA2JCCFFGE	Jack	0.80mm	2.00mm	4.00mm	4.00mm

Pin Version without Extended PTFE 2 Hole Flange



RFSMAA2JDFHP

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-26.5GHz
- VSWR <1.30
- Dielectric withstanding Voltage >750V



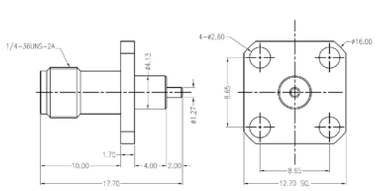
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Pin Diameter	Pin Length
RFSMAA2JEGDQ	Jack	15.80mm	12.20mm	0.64mm	18.00mm
RFSMAA2JEGHP	Jack	15.80mm	12.20mm	0.87mm	10.92mm
RFSMAA2JEGHR	Jack	15.80mm	12.20mm	0.87mm	26.00mm
RFSMAA2JCCDQ	Jack	12.70mm	8.60mm	0.64mm	18.00mm
RFSMAA2JCCHP	Jack	12.70mm	8.60mm	0.87mm	10.92mm
RFSMAA2JCCHR	Jack	12.70mm	8.60mm	0.87mm	26.00mm
RFSMAA2JDFDQ	Jack	14.00mm	10.20mm	0.64mm	18.00mm
RFSMAA2JDFHP	Jack	14.00mm	10.20mm	0.87mm	10.92mm

SMA Series Flange Mount (RoundPost)



RFSMAA4JCDLF

- Max Voltage 350V
- Operating Temperature -65C to +165C
- Frequency Range 0-18GHz
- VSWR <1.50 at 12-18GHz
- Dielectric withstanding Voltage >750V
- Only available in Brass with 3u" Gold plating



Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Pin Diameter	Pin Length
RFSMAA4JCDLF	Jack	12.70mm	8.65mm	1.27mm	2.00mm

Electrical:

Insulation Resistance:	>5000MOhm
Impedance:	50Ohm
Centre Contact Resistance:	<3.0mOhms
Outer Contact Resistance:	<2.0mOhms

Mechanical:

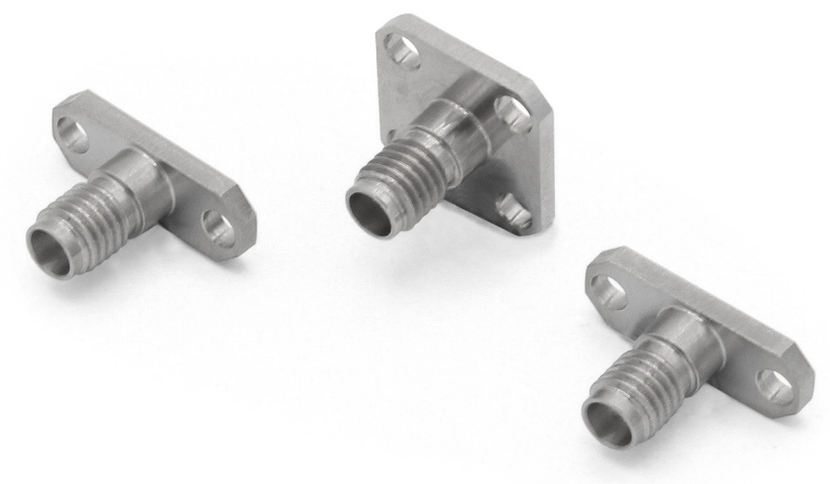
Centre Contact Retention:	>20N
Coupling Torque:	0.80Nm to 1.10Nm
Coupling Torque RPC N:	1.36Nm
Cycles:	>500

Material

Body:	Passivation of Stainless Steel, Brass with Gold plating
Contact:	Beryllium Copper
Insulator:	Adapter ASTM D 1710 ULTEM 1000
RoHS:	Compliant

The Bulgin SSMA connector series are micro-miniature, precision connectors with excellent electrical performance. Available for both semi-rigid and flexible coaxial cables, they are ideal for high-frequency applications.

The SSMA connector range offers a smaller version of the SMA connector and is widely used in microwave communications. It has stainless steel construction that provides mechanical ruggedness for high reliability in a compact size. These connectors are widely used in Radar, Military, Aerospace, Instrumentation, Test and Measurement and Satellite Communication Equipment (SATCOM).



Key Features:

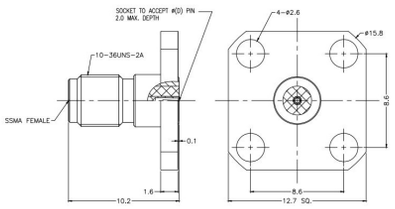
- 50-ohm Impedance
- Insulation resistance >5000MOhm
- Durability >500 Cycles
- Available in Male and Female Threads
- Available in Plug or Jack
- Beryllium Copper Contact Pin
- Body Material available in Stainless Steel Passivation

SSMA Series Socket 4 Hole Flange



RFSSMAA4JCCA

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >500V
- Available with Extended PTFE



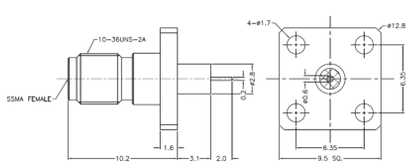
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Socket Diameter
RFSSMAA4JCCA	Jack	12.70mm	8.60mm	0.23mm
RFSSMAA4JCCB	Jack	12.70mm	8.60mm	0.30mm
RFSSMAA4JCCC	Jack	12.70mm	8.60mm	0.38mm
RFSSMAA4JCCD	Jack	12.70mm	8.60mm	0.46mm
RFSSMAA4JCCE	Jack	12.70mm	8.60mm	0.51mm
RFSSMAA4JAAA	Jack	9.50mm	6.35mm	0.23mm
RFSSMAA4JAAB	Jack	9.50mm	6.35mm	0.30mm
RFSSMAA4JAAC	Jack	9.50mm	6.35mm	0.38mm
RFSSMAA4JAAD	Jack	9.50mm	6.35mm	0.46mm
RFSSMAA4JAAE	Jack	9.50mm	6.35mm	0.51mm

SSMA Series Pin with Extended PTFE 4 Hole Flange



RFSSMAA4JAACFEC

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >500V
- Available with Extended PTFE
- Flange Mount Length 9.50mm
- Mount Hole Distance 6.35mm



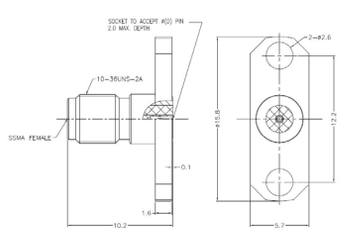
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Diameter	Extended PTFE Length
RFSSMAA4JAACFEC	Jack	0.60mm	2.00mm	2.80mm	3.10mm

SSMA Series Socket 2 Hole Flange



RFSSMAA2JEGA

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >500V
- Available with Extended PTFE



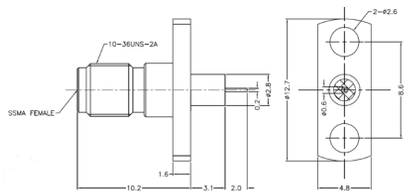
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Socket Diameter
RFSSMAA2JEGA	Jack	15.80mm	12.20mm	0.23mm
RFSSMAA2JEGB	Jack	15.80mm	12.20mm	0.30mm
RFSSMAA2JEGC	Jack	15.80mm	12.20mm	0.38mm
RFSSMAA2JEGD	Jack	15.80mm	12.20mm	0.46mm
RFSSMAA2JEGE	Jack	15.80mm	12.20mm	0.51mm
RFSSMAA2JCEA	Jack	12.70mm	8.90mm	0.23mm
RFSSMAA2JCEB	Jack	12.70mm	8.90mm	0.30mm
RFSSMAA2JCEC	Jack	12.70mm	8.90mm	0.38mm
RFSSMAA2JCED	Jack	12.70mm	8.90mm	0.46mm
RFSSMAA2JCEE	Jack	12.70mm	8.90mm	0.51mm

SSMA Series Pin with Extended PTFE 2 Hole Flange



RFSSMAA2JCCAFEC

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-40GHz
- VSWR <1.30
- Dielectric withstanding Voltage >500V
- Available with Extended PTFE
- Flange Mount Length 12.70mm
- Mount Hole Distance 8.60mm



Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Diameter	Extended PTFE Length
RFSSMAA2JCCAFEC	Jack	0.30mm	2.00mm	2.80mm	3.10mm

Electrical:

Insulation Resistance:	>5000MOhm
Impedance:	50Ohm
Centre Contact Resistance:	<5.0mOhms
Outer Contact Resistance:	<2.5mOhms

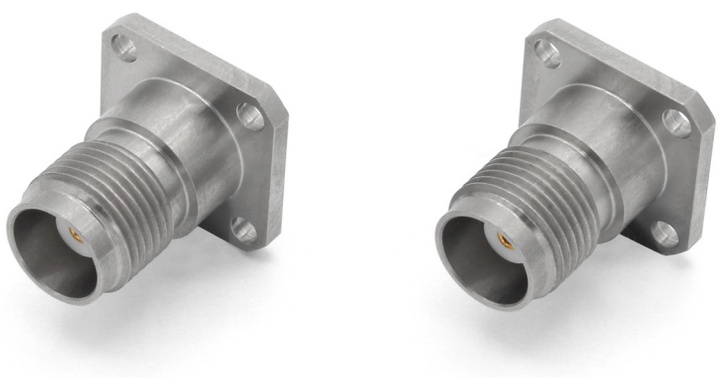
Mechanical:

Centre Contact Retention:	>20N
Coupling Torque:	0.80Nm to 1.10Nm
Coupling Torque RPC N:	1.36Nm
Cycles:	>500

Material

Body:	Passivation of Stainless Steel
Contact:	Beryllium Copper
Insulator:	Adapter ASTM D 1710
RoHS:	Compliant

Our TNCA connector range offers 50ohms precision connectors. Designed with excellent characteristics over the full frequency range up to 18GHz, the TNCA connector range are also mechanically compatible with TNC connectors.



Key Features:

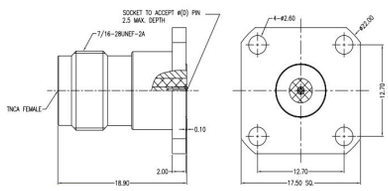
- 50-ohm Impedance
- Insulation resistance >5000MOhm
- Durability >500 Cycles
- Available in Male and Female Threads
- Available in Plug or Jack
- Beryllium Copper Contact Pin
- Body Material available in Stainless Steel Passivation

TNCA Series Socket 4 Hole Flange



RFTNCAA4JFHD

- Max Voltage 500V
- Operating Temperature -65C to +165C
- Frequency Range 0-18GHz
- VSWR <1.30
- Dielectric withstanding Voltage >500V



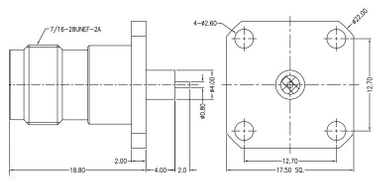
Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Socket Diameter
RFTNCAA4JFHD	Jack	17.50mm	12.70mm	0.46mm
RFTNCAA4JFHE	Jack	17.50mm	12.70mm	0.51mm
RFTNCAA4JFHF	Jack	17.50mm	12.70mm	0.91mm
RFTNCAA4JCCD	Jack	12.70mm	8.60mm	0.46mm
RFTNCAA4JCCE	Jack	12.70mm	8.60mm	0.51mm
RFTNCAA4JCCF	Jack	12.70mm	8.60mm	0.91mm
RFTNCAA4PFHD	Plug	17.50mm	12.70mm	0.46mm
RFTNCAA4PFHE	Plug	17.50mm	12.70mm	0.51mm
RFTNCAA4PFHF	Plug	17.50mm	12.70mm	0.91mm

TNCA Series Pin with Extended PTFE 4 Hole Flange



RFTNCAA4JFHFFGE

- Max Voltage 500V
- Operating Temperature -65C to +165C
- Frequency Range 0-11GHz
- VSWR <1.30
- Dielectric withstanding Voltage >1500V
- Available with Extended PTFE
- Flange Mount Length 17.50mm
- Mount Hole Distance 12.70mm



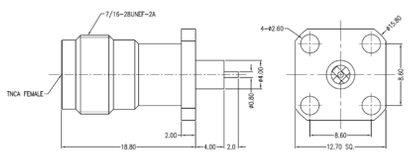
Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Diameter	Extended PTFE Length
RFTNCAA4JFHFFGE	Jack	0.80mm	2.00mm	4.00mm	4.00mm

TNCA Series Pin with Extended PTFE 4 Hole Flange



RFTNCAA4JCCFFGE

- Max Voltage 500V
- Operating Temperature -65C to +165C
- Frequency Range 0-11GHz
- VSWR <1.30
- Dielectric withstanding Voltage >1500V
- Available with Extended PTFE
- Flange Mount Length 12.70mm
- Mount Hole Distance 8.60mm



Part Number	Plug or Jack	Pin Diameter	Pin Length	Extended PTFE Diameter	Extended PTFE Length
RFTNCAA4JCCFFGE	Jack	0.80mm	2.00mm	4.00mm	4.00mm

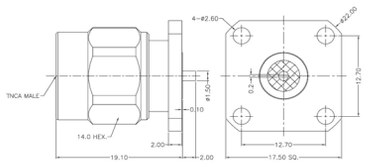
TNCA Series

TNCA Series Pin without Extended PTFE 4 Hole Flange:



RFTNCAA4PFHMF

- Max Voltage 500V
- Operating Temperature -65C to +165C
- Frequency Range 0-11GHz
- VSWR <1.30
- Dielectric withstanding Voltage >1500V
- Available with Extended PTFE



Part Number	Plug or Jack	Flange Mount Length	Mount Hole Distance	Pin Diameter	Pin Length
RFTNCAA4JFHMF	Jack	17.50mm	12.70mm	1.50mm	2.00mm
RFTNCAA4JCCMF	Jack	12.70mm	8.60mm	1.50mm	2.00mm
RFTNCAA4PFHMF	Plug	17.50mm	12.70mm	1.50mm	2.00mm

Electrical:

Insulation Resistance:	>5000MOhm
Impedance:	50Ohm
Centre Contact Resistance:	TNCA
Outer Contact Resistance:	<0.2mOhms

Mechanical:

Centre Contact Retention:	>20N
Coupling Torque:	0.80Nm to 1.10Nm
Coupling Torque RPC N:	1.36Nm
Cycles:	>500

Material

Body:	Passivation of Stainless Steel, Brass with Gold Plating
Contact:	Beryllium Copper
Insulator:	Adapter ASTM D 1710 & PEI
RoHS:	Compliant

Our RF Adapter Series offers Straight series connectors in: 1.85mm, 2.40mm, 2.92mm, 3.50mm, N Type, SMA, TNC, BNC, APC-7, Flange Mount and Right Angle.

The RF Adapters are used to transfer signals from one connector interface to another. They are RoHS compliance and manufactured from Stainless Steel with Beryllium Copper contacts.



Key Features:

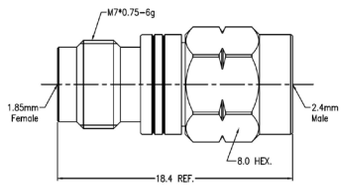
- 50-ohm Impedance
- Insulation resistance >5000MOhm
- Durability >500 Cycles
- Available in Male and Female Threads
- Available in Plug or Jack
- Beryllium Copper Contact Pin
- Body Material available in Stainless Steel Passivation

1.85mm Adapters Series Straight



RFAA185J240P

- Max Voltage 150V
- Operating Temperature -40C to +65C
- VSWR <1.25
- Dielectric withstanding Voltage >500V
- Frequency Range 0-65GHz



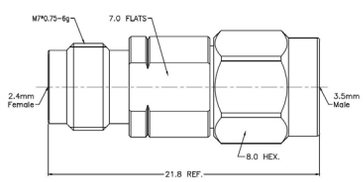
Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFAA185J185J	185	Jack	185	Jack
RFAA185P185J	185	Plug	185	Jack
RFAA185P185P	185	Plug	185	Plug
RFAA185J240J	185	Jack	240	Jack
RFAA185P240P	185	Plug	240	Plug
RFAA185P240J	185	Plug	240	Jack
RFAA185J240P	185	Jack	240	Plug
RFAA185J292J	185	Jack	292	Jack
RFAA185J292P	185	Jack	292	Plug
RFAA185P292J	185	Plug	292	Jack
RFAA185P292P	185	Plug	292	Plug
RFAA185J350J	185	Jack	350	Jack
RFAA185J350P	185	Jack	350	Plug
RFAA185P350J	185	Plug	350	Jack
RFAA185P350P	185	Plug	350	Plug

2.40mm Adapter Series Straight



RFAA240J350P

- Max Voltage 150V
- Operating Temperature -40C to +85C
- VSWR <1.20
- Dielectric withstanding Voltage >500V
- Frequency Range 0-50GHz



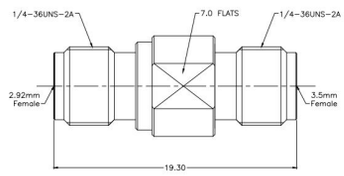
Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFAA240J240J	240	Jack	240	Jack
RFAA240P240P	240	Plug	240	Plug
RFAA240P240J	240	Plug	240	Jack
RFAA240J292J	240	Jack	292	Jack
RFAA240J292P	240	Jack	292	Plug
RFAA240P292J	240	Plug	292	Jack
RFAA240P292P	240	Plug	292	Plug
RFAA240P350J	240	Plug	350	Jack
RFAA240J350P	240	Jack	350	Plug
RFAA240P350J	240	Plug	350	Jack
RFAA240P350P	240	Plug	350	Plug

2.92mm Adapter Series Straight



RFAA292J292J

- Max Voltage 250V
- Operating Temperature -40C to +85C
- VSWR <1.20
- Dielectric withstanding Voltage >750V
- Frequency Range 0-40GHz



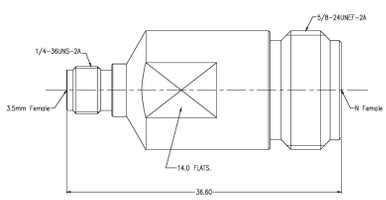
Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFAA292J292P	292	Jack	292	Plug
RFAA292J292J	292	Jack	292	Jack
RFAA292P292P	292	Plug	292	Plug
RFAA292J350J	292	Jack	350	Jack
RFAA292J350P	292	Jack	350	Plug
RFAA292P350J	292	Plug	350	Jack
RFAA292P350P	292	Plug	350	Plug

3.50mm Adapter Series Straight



RFAA350JNJ

- Max Voltage 250V
- Operating Temperature -40C to +85C
- VSWR <1.15
- Dielectric withstanding Voltage >750V
- Frequency Range 0-33GHz



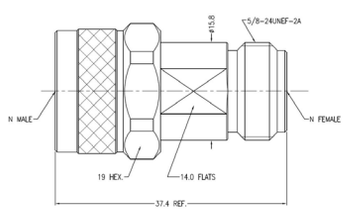
Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFAA350J350J	350	Jack	350	Jack
RFAA350J350P	350	Jack	350	Plug
RFAA350P350P	350	Plug	350	Plug
RFAA350JNJ	350	Jack	N	Jack
RFAA350JNP	350	Jack	N	Plug
RFAA350PNJ	350	Plug	N	Jack
RFAA350PNP	350	Plug	N	Plug

N Type Adapter Series Straight



RFAANPNJ

- Max Voltage 500V
- Operating Temperature -40C to +85C
- VSWR <1.15
- Dielectric withstanding Voltage >1500V
- Frequency Range 0-18GHz



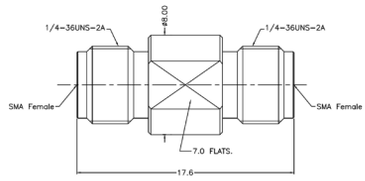
Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFAANJNJ	N	Jack	N	Jack
RFAANPNJ	N	Plug	N	Jack
RFAANPNP	N	Plug	N	Plug

SMA Adapter Series Straight



RFAASMAJSMAJ

- Max Voltage 335V
- Operating Temperature -65C to +165C
- VSWR <1.15
- Dielectric withstanding Voltage >750
- Frequency Range 0-26.5GHz



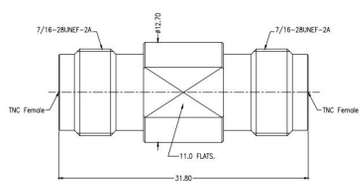
Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFAASMAJSMAJ	SMA	Jack	SMA	Jack
RFAASMAPSMAJ	SMA	Plug	SMA	Jack
RFAASMAPSMAP	SMA	Plug	SMA	Plug
RFAASMAJNJ	SMA	Jack	N	Jack
RFAASMAJNP	SMA	Jack	N	Plug
RFAASMAPNP	SMA	Plug	N	Plug
RFAASMAPNJ	SMA	Plug	N	Jack

TNC Adapter Series Straight



RFAATNCJTNCJ

- Max Voltage 500V
- Operating Temperature -65C to +165C
- VSWR <1.15
- Dielectric withstanding Voltage >1500V
- Frequency Range 0-11GHz



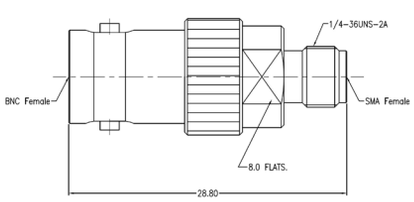
Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFAATNCJTNCJ	TNC	Jack	TNC	Jack
RFAATNCJTNCP	TNC	Jack	TNC	Plug
RFAATNCPTNCP	TNC	Plug	TNC	Plug
RFAATNCPNJ	TNC	Plug	N	Jack

BNC Adapter Series Straight



RFAABNCJSMAJ

- Max Voltage 335V
- Operating Temperature -65C to +165C
- VSWR <1.15
- Dielectric withstanding Voltage >750V
- Frequency Range 0-8GHz



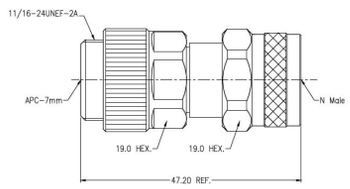
Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFAABNCJSMAJ	BNC	Jack	SMA	Jack
RFAABNCPSMAJ	BNC	Plug	SMA	Jack
RFAABNCJSMAP	BNC	Jack	SMA	Plug
RFAABNCPSMAP	BNC	Plug	SMA	Plug

APC-7 Adapter Series Straight



RFAAAPC7NP

- Max Voltage 1000V
- Operating Temperature -40C to +85C
- VSWR <1.15
- Dielectric withstanding Voltage >2500V
- Frequency Range 0-18GHz



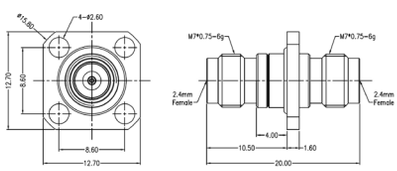
Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFAAAPC7NJ	APC7	-	N	Jack
RFAAAPC7NP	APC7	-	N	Plug

Adapter Series Flange Mount 2.40mm Adapter



RFAA4240J240J

- Max Voltage 150V
- Operating Temperature -40C to +85C
- VSWR <1.20
- Dielectric withstanding Voltage >500V
- Frequency Range 0-50GHz



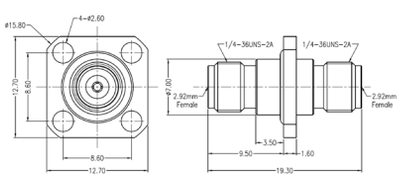
Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFAA4240J240J	240	Jack	240	Jack

2.92mm Adapter Series Flange Mount



RFAA4292J292J

- Max Voltage 250V
- Operating Temperature -40C to +85C
- VSWR <1.20
- Dielectric withstanding Voltage >750V
- Frequency Range 0-40GHz



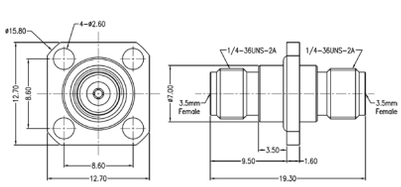
Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFAA4292J292J	240	Jack	240	Jack

3.50mm Adapter Series Flange Mount



RFAA4350J350J

- Max Voltage 335V
- Operating Temperature -40C to +85C
- VSWR <1.20
- Dielectric withstanding Voltage >750V
- Frequency Range 0-33GHz



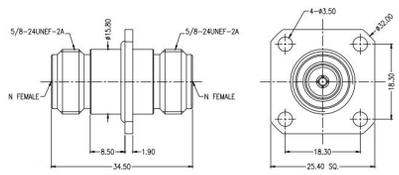
Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFAA4350J350J	350	Jack	350	Jack

N Type Adapter Series Flange Mount



RFAA4NJNJ

- Max Voltage 500V
- Operating Temperature -40C to +85C
- VSWR <1.15
- Dielectric withstanding Voltage >1500V
- Frequency Range 0-18GHz



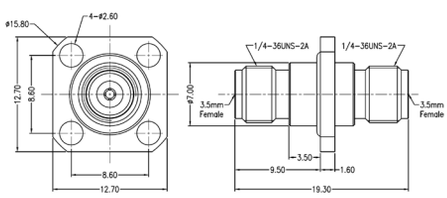
Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFAA4NJNJ	N	Jack	N	Jack
RFAA4NJNP	N	Jack	N	Plug

SMA Adapter Series Flange Mount



RFAA4350J350J

- Max Voltage 335V
- Operating Temperature -65C to +165C
- VSWR <1.15
- Dielectric withstanding Voltage >750V
- Frequency Range 0-26.5GHz



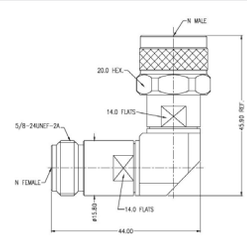
Part Number	End 1	Plug or Jack	End 2	Plug or Jack	SMA or N Side
RFAA4SMAJSMAJ	SMA	Jack	SMA	Jack	-
RFAA4SMAJSMAJ	SMA	Jack	SMA	Jack	-
RFAA4SMAPSMAJ	SMA	Plug	SMA	Jack	-
RFAA4SMAPSMAP	SMA	Plug	SMA	Plug	-
RFAA4SMAJNJA	SMA	Jack	N	Jack	SMA Side
RFAA4SMAJNJB	SMA	Jack	N	Jack	N Side
RFAA4SMAPNJA	SMA	Plug	N	Jack	SMA Side
RFAA4SMAPNJB	SMA	Plug	N	Jack	N Side
RFAA4SMAPNP	SMA	Plug	N	Plug	-

N Type Adapter Series Right Angle



RFABNJNP

- Max Voltage 500V
- Operating Temperature -40C to +85C
- VSWR <1.25
- Dielectric withstanding Voltage >1500V
- Frequency Range 0-18GHz



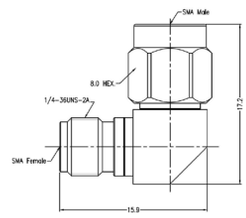
Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFABNJNJ	N	Jack	N	Jack
RFABNJNP	N	Jack	N	Plug
RFABNPNP	N	Plug	N	Plug

SMA Adapter Series Right Angle



RFABSMAJSMAP

- Max Voltage 335V
- Operating Temperature -65C to +165C
- VSWR <1.25
- Dielectric withstanding Voltage >750V
- Frequency Range 0-26.5GHz



Part Number	End 1	Plug or Jack	End 2	Plug or Jack
RFABSMAJSMAJ	SMA	Jack	SMA	Jack
RFABSMAJSMAP	SMA	Jack	SMA	Plug
RFABSMAPSMAP	SMA	Plug	SMA	Plug

Electrical:

Insulation Resistance:	>5000MOhm
Impedance:	50Ohm
Centre Contact Resistance:	<1.5mOhms
Outer Contact Resistance:	<0.2mOhms

Mechanical:

Centre Contact Retention:	>20N
Coupling Torque:	0.80Nm to 1.10Nm
Coupling Torque (APC-7) RPC 7:	0.70Nm to 1.10Nm
Coupling Torque RPC N:	1.36Nm
Cycles:	>500
Cycles (APC-7) RPC N:	>500
Cycles (APC-7) RPC 7:	>5000

Material

Body:	Passivation of Stainless Steel
Contact:	Beryllium Copper
Insulator:	UNFILLED ULTEM 1000/PEI) Adapter ASTM D 1710 & PEI
RoHS:	Compliant

Our RF Termination Series is available in 2.40mm, 2.92mm, 3.50mm, N-type and SMA series. The range also includes standard feed-thru load and RF load versions with male, female, jack and plug genders.

Our terminations (also known as RF loads or Dummy loads) have some precision designs and offer a frequency range as high as 50 GHz.



Key Features:

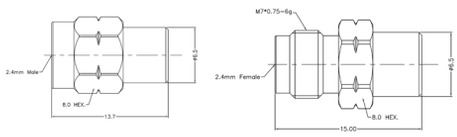
- 50-ohm Impedance
- Insulation resistance >5000MOhm
- Durability >500 Cycles
- Available in Male and Female Threads
- Available in Plug or Jack
- Beryllium Copper Contact Pin
- Body Material available in Stainless Steel Passivation

2.40mm Termination Series



RFTERM240P05W

- Max Voltage 335V
- Operating Temperature -65C to +165C (0.5W) -55C to +125C (1W)
- Frequency Range 0-40GHz
- VSWR <1.20 (0.5W) <1.25 (1W)
- Dielectric withstanding Voltage >750V
- Available in 0.5W and 1W



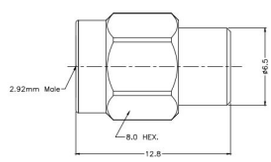
Part Number	Fitting	Plug or Jack	Watts
RFTERM240P05W	240	Plug	05W
RFTERM240J05W	240	Jack	05W
RFTERM240P1W	240	Plug	1W
RFTERM240J1W	240	Jack	1W

2.92mm Termination Series



RFTERM292P05W

- Max Voltage 335V
- Operating Temperature -65C to +165C (0.5W) -55C to +125C (1W)
- Frequency Range 0-40GHz
- VSWR <1.15 (1W) <1.20 (2W)
- Dielectric withstanding Voltage >750V
- Available in 1W and 2W



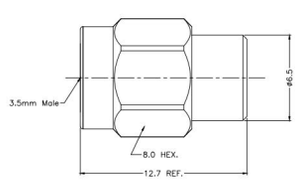
Part Number	Fitting	Plug or Jack	Watts
RFTERM292P05W	292	Plug	05W
RFTERM292J05W	292	Jack	05W
RFTERM292P1W	292	Plug	1W
RFTERM292J1W	292	Jack	1W

3.50mm Termination Series



RFTERM350P1W

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-40GHz
- VSWR <1.15 (1W) <1.20 (2W)
- Dielectric withstanding Voltage >750V
- Available in 1W and 2W



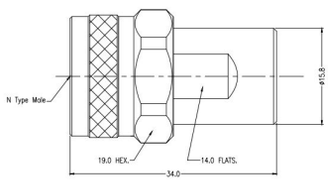
Part Number	Fitting	Plug or Jack	Watts
RFTERM350P1W	350	Plug	1W
RFTERM350J1W	350	Jack	1W
RFTERM350P2W	350	Plug	2W
RFTERM350J2W	350	Jack	2W

N Type Termination Series



RFTERMNP2W

- Max Voltage 335V
- Operating Temperature -40C to +85C
- Frequency Range 0-18GHz
- VSWR <1.20
- Dielectric withstanding Voltage >1500V
- Available in 2W



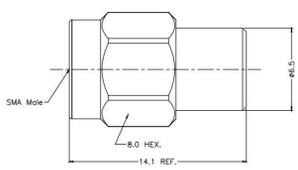
Part Number	Fitting	Plug or Jack	Watts
RFTERMNP2W	N	Plug	2W
RFTERMNJ2W	N	Jack	2W

SMA Termination Series



RFTERMSMAP1W

- Max Voltage 335V
- Operating Temperature -65C to +165C
- Frequency Range 0-18GHz
- VSWR <1.15 (1W) <1.20 (2W)
- Dielectric withstanding Voltage >750V
- Available in 1W and 2W



Part Number	Fitting	Plug or Jack	Watts
RFTERMSMAP1W	SMA	Plug	1W
RFTERMSMAJ1W	SMA	Jack	1W
RFTERMSMAP2W	SMA	Plug	2W
RFTERMSMAJ2W	SMA	Jack	2W

Electrical:

Insulation Resistance:	>5000MOhm
Impedance:	50Ohm
Centre Contact Resistance:	<3.0mOhms
Outer Contact Resistance:	<2.0mOhms

Mechanical:

Centre Contact Retention:	>20N
Coupling Torque:	0.80Nm to 1.10Nm
Coupling Torque (APC-7) RPC 7:	0.70Nm to 1.10Nm
Coupling Torque RPC N:	1.36Nm
Cycles:	>500
Cycles (APC-7) RPC N:	>500
Cycles (APC-7) RPC 7:	>5000

Material

Body:	Passivation of Stainless Steel
Contact:	Beryllium Copper
Insulator:	Adapter ASTM D 1710 UNFILLED ULTEM 1000/PEI
RoHS:	Compliant

RF Termination Series

Mount Hole Distance	Code
6.35mm	A
7.16mm	B
8.60mm	C
8.65mm	D
8.90mm	E
10.20mm	F
12.20mm	G
12.70mm	H
18.30mm	I

Socket Diameter	Code
0.23mm	A
0.30mm	B
0.38mm	C
0.46mm	D
0.51mm	E
0.91mm	F

Flange Mount Length	Code
9.50mm	A
10.16mm	B
12.70mm	C
14.00mm	D
15.80mm	E
17.50mm	F
25.40mm	G

Function	Code
Straight	A
Right Angle	B
Edge Launch	C
CMC	D
End Launch	E

PCB Thickness	Code
0.61mm	A
0.87mm	B
1.78mm	C
1.88mm	D

Function CMC	Code
Microstrip Line	A
Stripline	B

Seal Position	Code
SMA Side	A
N Side	B

Pin Diameter	Code
0.30mm	A
0.38mm	B
0.60mm	C
0.64mm	D
0.75mm	E
0.80mm	F
0.86mm	G
0.87mm	H
1.00mm	I
1.04mm	J
1.20mm	K
1.27mm	L
1.50mm	M
2.70mm	N

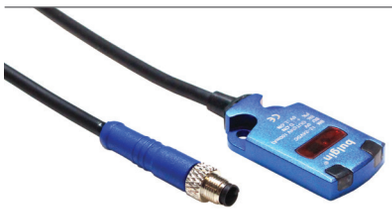
Cable Spec	Code
STA 142	G
UFB142A	G
-GORE 3507	G
1401 Cable	G

Bulgin's slim line photoelectric sensor range offers a high degree of mechanical and electrical stability. A cost effective and flexible sensing solution. Designed specifically for manufacturing automation and industrial automation sensing operations.

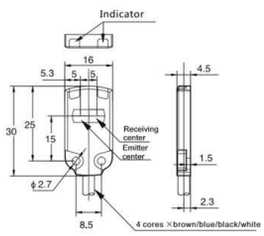


Key Features:

- Sealed to IP67
- Stainless Steel 316 shell
- Cabled versions with or without connector
- 2m cable length
- <0.5m/s response time
- NPN & PNP output
- Sensing Distance 2-40mm / 2-30mm
- Light point diameter 5.0mm at 30mm
- Power supply voltage 12 - 24 VDC
- Ambient humidity 35 - 85%
- Operating temperature -10 to 50°C
- Small body, just 4.5mm thick

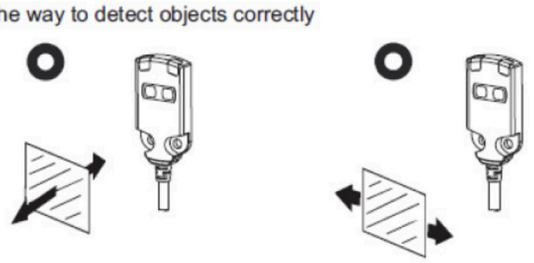


- Diffuse Reflective IP67 Sensors
- Choice of M5 Connector Termination
- Stainless Steel 316 Body
- Up to 40mm Sensing Range



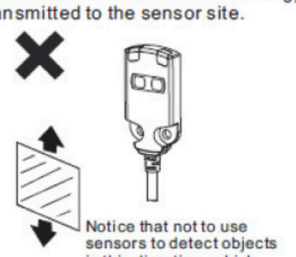
Part no.	Operation Mode	Output Configuration	Sensing Distance	Connection Method
SLLP3002M5	Light on	NPN	2 - 30mm	M5
SLDP3002M5	Dark on	NPN	2 - 30mm	M5
SLLN3002M5	Light on	PNP	2 - 30mm	M5
SLDN3002M5	Dark on	PNP	2 - 30mm	M5
SLLP4002M5	Light on	NPN	2 - 40mm	M5
SLDP4002M5	Dark on	NPN	2 - 40mm	M5
SLLN4002M5	Light on	PNP	2 - 40mm	M5
SLDN4002M5	Dark on	PNP	2 - 40mm	M5
SLLP3002CL	Light on	NPN	2 - 30mm	Cable
SLDP3002CL	Dark on	NPN	2 - 30mm	Cable
SLLN3002CL	Light on	PNP	2 - 30mm	Cable
SLDN3002CL	Dark on	PNP	2 - 30mm	Cable
SLLP4002CL	Light on	NPN	2 - 40mm	Cable
SLDP4002CL	Dark on	NPN	2 - 40mm	Cable
SLLN4002CL	Light on	PNP	2 - 40mm	Cable
SLDN4002CL	Dark on	PNP	2 - 40mm	Cable

O The way to detect objects correctly

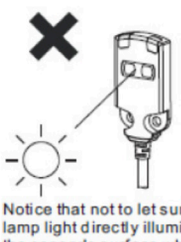


The wrong way to use the sensor

- Use in direct sunlight
- Used in a place of high humidity or dew
- Use in corrosive gas sites
- The use of vibration or shock energy can be directly transmitted to the sensor site.

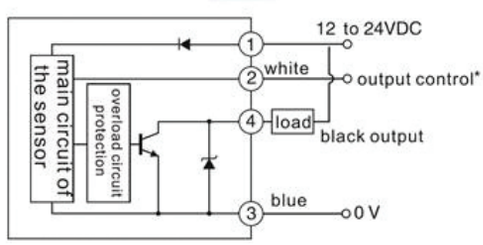


Notice that not to use sensors to detect objects in this direction, which may lead to unstable work.



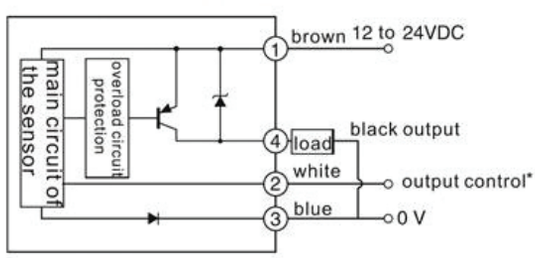
Notice that not to let sunlight or lamp light directly illuminate the sensor's surface when installing.

·NPN output



*DARK-ON mode white ---12 to 24VDC
LIGHT-ON mode ---0V

·PNP output



*DARK-ON mode white ---12 to 24VDC
LIGHT-ON mode ---0V

Electrical:

Power Voltage:	12 V~24VDC (±10%)
Current Consumption:	11 mA
Output Control (normal):	NPN output type: The NPN collector is open below 24VDC, below 50mA Residual voltage: below 10mA, 10~30mA below 1.5V Below 10mA, when 30~50mA below 2.0V Leakage current: when load resistance 3KΩ below 0.3mA when load resistance 1KΩ below 0.5mA when load resistance 0.2KΩ below 1.5mA
Maximum Switching Load Current:	50 mA

Mechanical:

Operating Temperature:	-10 to 50°C
Ambient Humidity:	35-85%
Sealing:	IP67
Vibration Resistance:	10-50Hz double amplitudes, X. Y. Z. each direction 2 hours
Shock Resistance:	1000m/s^2, X. Y. Z. each direction 6 times
Cable Length:	02 = 2m
Termination:	M5 = M5 connector CL = Blunt cut wire

Operation:

Indicator:	· Out: Red; · Stable operation: Green · Transmitters power supply: Green · Detection: Red & Green
Range:	SL
Operation Mode:	L = Light On D = Dark On
Output Configuration:	P = NPN N = PNP
Sensing Distance:	30 = up to 30mm 40 = up to 40mm

Materials:	Cable Connectors:	Sensor:
Body:	TPU	Stainless Steel 316
Coupling Nut:	Nickel Plated Brass	-
Colour:	Blue	Blue
Plug Contacts:	Brass, Gold plating	-
Socket Contacts:	Phosphor Bronze, Gold plating	-
O Rings & Gaskets:	Viton	-
RoHS	Compliant	Compliant

Photoelectric Sensors

SL	X	X	XX	XX	XX
Range	**Operation Mode**	**Output Configuration**	**Sensing Distance**	**Cable Length**	**Termination**
SL	L = Light On D = Dark On	P = NPN N = PNP	30 = up to 30mm 40 = up to 40mm	02 = 2m	M5 = M5 connector CL = Blunt cut wire

Manufactured from Stainless Steel, Bulgin's extensive range of vandal resistant security switches are designed with a high resistance to wear and tear, corrosion and harsh use in potentially hostile environments such as access control applications.

The front and rear panel mounted versions have three profiles –prominent, domed and low profile – with a choice of switching and IP66 & IP68 front panel sealing which combined together to meet the ergonomic, electrical and environmental demands of switch panel design. New additions of Black Anodised Alloy as well as Stainless Steel are now available - and where the ultimate strength of steel is not needed, there is a brass, chrome plated alternative. Low profile style switches are also now available with a latching, push on - push off, action.

The illuminated versions are available in dot and ring LED indication and a variety of illumination colours including bi-colour LED's. Newer versions also feature LED illumination driven by 6V, 12V & 24V together with rear of panel sealing, these options will add that extra dimension to control panel layouts and functionality.



Vandal Resistant	6
Push Button	19
Voltage Selectors	41
Capacitive Switches	42
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Miniature Stainless Steel Vandal Resistant	25
Rocker Switches	54
Toggle Switches	81
Refrigerator Switches	86
Slide Switches	93

Stainless Steel Low Profile Vandal Resistant

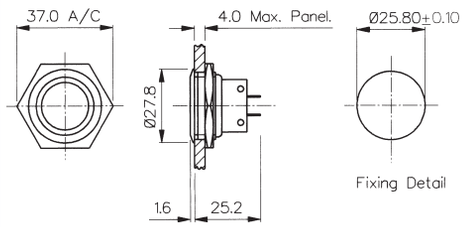
Momentary

Front Panel Mounting



MP0027

- 28mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac

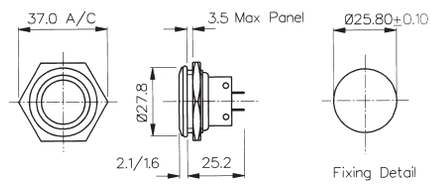


Front Panel Mounting



MP0038
Sealed to IP66

- Front Panel Sealed to IP66
- 28mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac



Specifications	MP0027	MP0038
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac 2A, 28Vdc	5A, 250Vac 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10³ MΩ	>10³ MΩ
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +70°C	–20°C to +70°C
Sealing (Front of panel only):		Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	 1,000,000 (min) 35,000 (min)	 1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	12.5N (typ)
Rear Nut Fixing Torque:	2.5Nm	1.13Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	 Glass Filled Nylon Brass, Tin Plated Stainless Steel	 Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	1.0” x 26TPI	1.0” x 26TPI
RoHS	Compliant	Compliant

Stainless Steel Low Profile Vandal Resistant

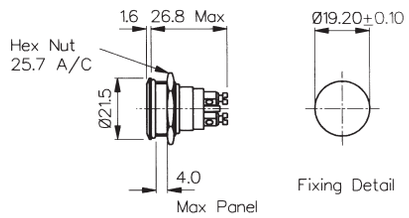
Momentary

Front Panel Mounting



MP0037
Sealed to IP68

- Front Panel Sealed to IP68
- 21.5mm diameter
- S.P. Push to Make
- 1A, 50Vac/dc
- Industry Standard Size

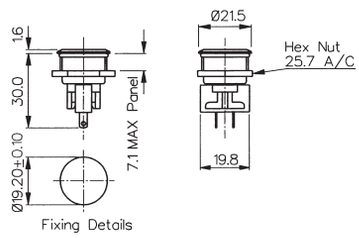


Front Panel Mounting



MP0031
Sealed to IP66

- Front Panel Sealed to IP66
- 21.5mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac

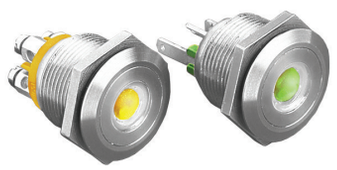


Specifications	MP0037	MP0031
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^5$ MΩ	$>10^3$ MΩ
Dielectric Strength:	>1.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +70°C	–20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP68 EN 60529:1992+A2:2013 (Micro switch not sealed)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
IP68 rating 10M for 2 weeks test:	Passed	
Operations Mechanical: Electrical:	 1,000,000 (min) 30,000 (min)	 1,000,000 (min) 35,000 (min)
Operating Pressure:	10N (typ)	4.7N (typ)
Rear Nut Fixing Torque:	0.57Nm	0.57Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	 Glass Filled Nylon Brass, Silver Plated Stainless Steel	 Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Brass, Silver Plated, Silver	Fine Silver
Thread size:	0.747” x 26TPI	0.747” x 26TPI
RoHS	Compliant	Compliant

Stainless Steel Illuminated Vandal Resistant

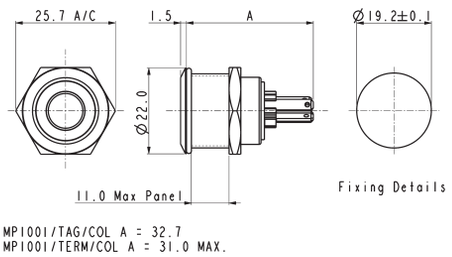
LED

Front Panel Mounting



MPI001- front panel seal to IP66

- Dot illumination
- 22mm diameter
- Single Contact push to make
- 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue, White or dual colour illumination
- Bright daylight LEDs
- Independent LED terminals
- Front panel seal to IP66
- Integral supply resistors
- TVS protection



Specifications — MPI001/Termination/Colour/Voltage

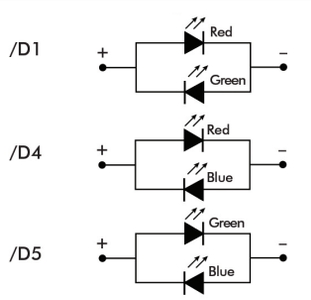
Illumination style:	Dot
Terminations:	/28 (2.8mm tabs), /TERM or /TE (screw terminals)
Switching:	Single Contact, push to make, tactile (momentary action)
Max. Switch Rating:	50mA, 24Vdc

LEDs (ratings @ 20mA)

Part No.	/RD	/GN	/AM	/BL	/WH	/D1	/D4	/D5
Colours	Red	Green	Amber	Blue	White	Red/Green	Red/Blue	Green/Blue
Luminous Intensity	900mcd	2500mcd	900mcd	1500mcd	900mcd	2500mcd/5000mcd	2000mcd/850mcd	4000mcd/2000mcd
Forward Voltage	1.85V	3.5V	2.3V	3.5V	3.6V	2.05V/3.6V	2.0V/3.6V	3.6V/3.6V
Forward Current	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA
Moulding Colour	Red	Green	Amber	Blue	White	Black	Black	Black

Illumination Voltage:	/no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above. /6 6Vdc /12 12Vdc /24 24Vdc
Contact Resistance:	<100mΩ
Insulation Resistance:	>10³ MΩ
Dielectric Strength:	Contact to Panel >2.0kV Contact to Contact 1500
Operating Temp. Range:	–30°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations	
Mechanical:	750,000 (min)
Electrical:	35,000 (min)
Operating Pressure:	12N
Rear Nut Fixing Torque:	0.57Nm
Screw Terminal Torque	0.2Nm Max

Dual Colour LED Configuration

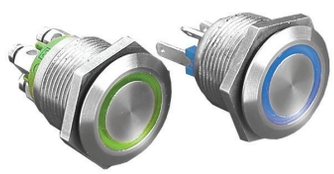


Materials	
Switch assembly:	UL94V-0 rated Polyamide (Nylon)
Tags:	Copper Alloy
Terminals:	Copper Alloy
Switch Body & Button:	Stainless Steel
Lens and Lens Body:	Polycarbonate
O ring:	Nitrile
Internal seal:	Silicone
Contact Plate:	Gold Plated
Thread size:	18.97mm x 26TPI
RoHS	Compliant

Stainless Steel Illuminated Vandal Resistant

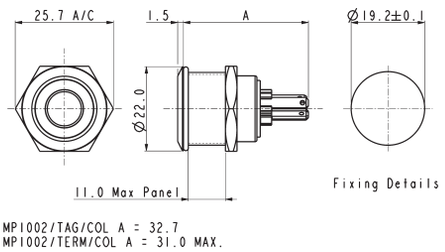
LED

Front Panel Mounting



MPI002- front panel seal to IP66

- Ring illumination
- 22mm diameter
- Single Contact push to make
- 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue, White or dual colour illumination
- Bright daylight LEDs
- Independent LED terminals
- Front panel seal to IP66
- Integral supply resistors
- TVS protection



Specifications

MPI002/Termination/Colour/Voltage

Illumination style: Ring

Terminations: /28 (2.8mm tabs), /TERM or /TE (screw terminals)

Switching: Single Contact, push to make, tactile (momentary action)

Max. Switch Rating: 50mA, 24Vdc

LEDs (ratings @ 20mA)

Part No.	/RD	/GN	/AM	/BL	/WH	/D1	/D4	/D5	/D6
Colours	Red	Green	Amber	Blue	White	Red/Green	Red/Blue	Green/Blue	Green/White
Luminous Intensity	900mcd	2500mcd	900mcd	1500mcd	900mcd	2500mcd/5000mcd	2000mcd/850mcd	4000mcd/2000mcd	178mcd/450mcd
Forward Voltage	1.85V	3.5V	2.3V	3.5V	3.6V	2.05V/3.6V	2.0V/3.6V	3.6V/3.6V	3.4V/3.2V
Forward Current	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA
Moulding Colour	Red	Green	Amber	Blue	White	Black	Black	Black	Black

Illumination Voltage:

/no suffix	No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above.
/6	6Vdc
/12	12Vdc
/24	24Vdc

Contact Resistance: <100mΩ

Insulation Resistance: >10³ MΩ

Dielectric Strength: Contact to Panel >2.0kV
Contact to Contact 1500

Operating Temp. Range: –30°C to +70°C

Sealing (Front of panel only): Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)

Operations

Electrical: 35,000 (min)

Operating Pressure: 12N

Rear Nut Fixing Torque: 0.57Nm

Screw Terminal Torque 0.2Nm Max

Materials

Switch assembly: UL94V-0 rated Polyamide (Nylon)

Tags: Copper Alloy

Terminals: Copper Alloy

Switch Body & Button: Stainless Steel

Lens and Lens Body: Polycarbonate

O ring: Nitrile

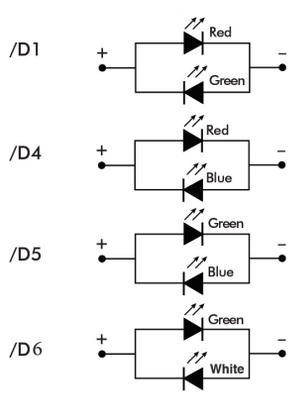
Internal seal: Silicone

Contact Plate: Gold Plated

Thread size: 18.97mm x 26TPI

RoHS Compliant

Dual Colour LED Configuration



Stainless Steel Illuminated Vandal Resistant

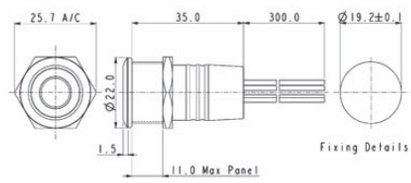
Rear of panel IP66 seal

Rear Panel Sealed - Flying Leads



MPI002/FL/xx/x

- Dot or ring illumination
- 22mm diameter
- Single Contact push to make
- 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue, White or dual colour illumination
- Bright daylight LEDs
- Independent LED terminals
- Front and rear panel seal to IP66
- Integral supply resistors
- TVS protection



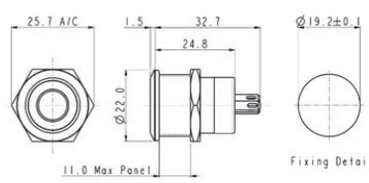
Flying lead colours: LED: red + and black –. Switch contacts: white.

Rear Panel Sealed - Solder Tags



MPI001/RP/xx/x

- Dot or ring illumination
- 22mm diameter
- Single Contact push to make
- 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue & White illumination
- Bright daylight LEDs
- Independent LED terminals
- Front and rear panel seal to IP66
- Solder tag termination
- TVS protection



LED terminals marked + and –. Switch terminals unmarked.

Specifications	MPI001/Termination/Colour/Voltage	MPI002/Termination/Colour/Voltage
Illumination style:	Dot	Ring
Terminations:	/FL (Flying leads) /RP (Solder tags)	/FL (Flying leads) /RP (Solder tags)
Switching:	Single Contact, push to make, tactile (momentary action)	Single Contact, push to make, tactile (momentary action)
Max. Switch Rating:	50mA, 24Vdc	50mA, 24Vdc

LEDs (ratings @ 20mA)

Part No.	/RD	/GN	/AM	/BL	/WH	/RD	/GN	/AM	/BL	/WH
Colours	Red	Green	Amber	Blue	White	Red	Green	Amber	Blue	White
Luminous Intensity	900mcd	2500mcd	900mcd	1500mcd	900mcd	900mcd	2500mcd	900mcd	1500mcd	900mcd
Forward Voltage	1.85V	3.5V	2.3V	3.5V	3.6V	1.85V	3.5V	2.3V	3.5V	3.6V
Forward Current	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA
Moulding Colour	Red	Green	Amber	Blue	White	Red	Green	Amber	Blue	White

Illumination Voltage:	/no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above. /6 6Vdc /12 12Vdc /24 24Vdc	/no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above. /6 6Vdc /12 12Vdc /24 24Vdc
Contact Resistance:	<100mΩ	<100mΩ
Insulation Resistance:	>10³ MΩ	>10³ MΩ
Dielectric Strength:	Contact to Panel >2.0kV Contact to Contact 1500	Contact to Panel >2.0kV Contact to Contact 1500
Operating Temp. Range:	–30°C to +70°C	–30°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations		
Mechanical:	750,000 (min)	
Electrical:	35,000 (min)	35,000 (min)
Operating Pressure:	12N	12N
Rear Nut Fixing Torque:	0.57Nm	0.57Nm
Materials		
Switch assembly:	UL94V-0 rated Polyamide (Nylon)	UL94V-0 rated Polyamide (Nylon)
Tags:	Copper Alloy	Copper Alloy
Terminals:	Copper Alloy	Copper Alloy
Switch Body & Button:	Stainless Steel	Stainless Steel
Lens and Lens Body:	Polycarbonate	Polycarbonate
O ring:	Nitrile	Nitrile
Internal seal:	Silicone	Silicone
Contact Plate:	Gold Plated	Gold Plated
Thread size:	18.97mm x 26TPI	18.97mm x 26TPI
RoHS	Compliant	Compliant

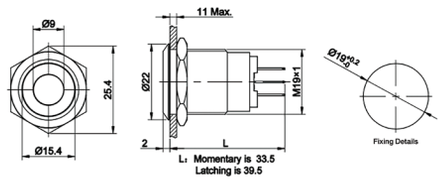
19mm Stainless Steel Illuminated Vandal Resistant

Low Profile

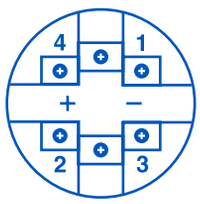


MPI005

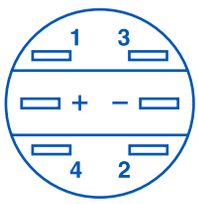
- 22mm bezel diameter
- 19.2mm ± 0.2mm fixing hole diameter
- S.P.C.O



1, 2 are normally closed (NC)
3, 4 are normally opened (NO)
+, - are lamp terminals, the standard LED terminals have no difference of anode and cathode;.



Screw Layout



Plug Layout

Specifications	**MPI005/Actuator/Terminal/Function/Material/Colour/Voltage**
Terminations:	Plug Terminal or Screw Terminal
Switching:	S.P.C.O Momentary Action and Latching
Sealing:	IP65 (Momentary variants can be made to IP67 upon request)
Max. Rating:	5A @ 12VDC or 24 VDC 5A @ 125VAC 3A @ 250 VAC
Contact Resistance:	50mΩ max. @ 1A, 2V
Insulation Resistance:	>1000 MΩ @ 500Vdc
Dielectric Strength:	> 2.0kVac
Operating Temp. Range:	-25°C to +55°C
Operations Mechanical: Electrical:	 1,000,000 (min) 50,000 (min)
Rear Nut Fixing Torque:	0.8Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	 Polycarbonate Brass, Gold Plated Stainless Steel / Aluminium Alloy
Contacts:	Silver
RoHS	Compliant

19mm Stainless Steel Illuminated Vandal Resistant

MPI	/ 005	/ X	/ X	/ X	/ X	/ X	/ X
Series	**Type**	**Actuator Type**	**Terminal**	**Switching Type**	**Material**	**Illumination**	**Voltage**
19mm Metal **Push Button**	19mm Illuminated AV Switch	**D** = Dot Illumination **R** = Ring **P** = Illuminated Power **O** = Power Symbol / Ring	**28** = 2.8mm Plug Terminal **TE** = Screw Terminal	**M** = Momentary **L** = Latching	**S** = Stainless Steel **A** = Black Anodized Aluminum	**BL** **GN** **RD** **AM** **WH** **Others on request**	**12** = 12VAC Others Available on request

Examples:

MPI005/D/28/L/S/BL/12 = 19mm Metal Push Button, Dot Illumination, 2.8mm Plug Terminal, Latching, Stainless Steel, Blue, 12 Volt

Note:

Power Symbol / Ring not available in black anodized aluminum

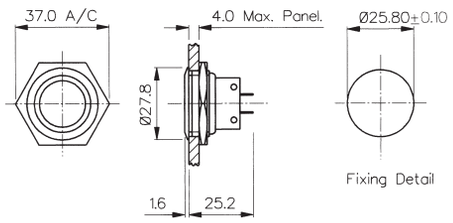
Low Profile Brass Chrome Plated Vandal Resistant

Front Panel Mounting



MPB038
Sealed to IP66

- Front Panel Sealed to IP66
- 28mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac

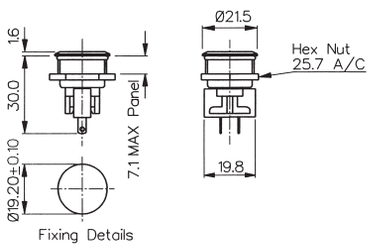


Front Panel Mounting



MPB031
Sealed to IP66

- Front Panel Sealed to IP66
- 21mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac

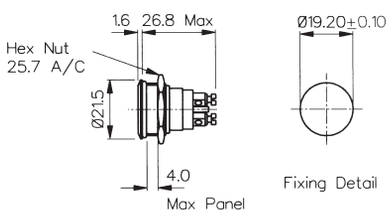


Front Panel Mounting



MPB037
Sealed to IP68

- Front Panel Sealed to IP68
- 21.5mm diameter
- S.P. Push to Make
- 1A, 50Vac/dc



Specifications	MPB038	MPB031	MPB037
Terminations:	Solder Tags	Solder Tags	Screw Terminals
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)	S.P. Push to make Momentary action
Max. Rating:	5A, 250Vac. 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc	1A, 50Vac/dc
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Insulation Resistance:	>10^3 MΩ	>10^3 MΩ	>10^5 MΩ
Dielectric Strength:	>2.0kVac	>2.0kVac	>1.0kVac
Operating Temp. Range:	–20°C to +70°C	–20°C to +70°C	–20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)	Protection Classification: IP68 EN60529-1:1992 + A2:2013. (Micro switch not sealed) (10m for 2 weeks)
Operations			
Mechanical:	1,000,000 (min)	1,000,000 (min)	1,000,000 (min)
Electrical:	35,000 (min)	35,000 (min)	30,000 (min)
Operating Pressure:	12.5N (typ)	4.7N (typ)	7.5N (typ)
Rear Nut Fixing Torque:	1.13Nm	0.57Nm	0.57Nm
Materials			
Mouldings:	Glass Filled Nylon	Glass Filled Nylon	Glass Filled Nylon
Tags/Terminations:	Brass, Tin Plated	Brass, Tin Plated	Brass, Tin Plated
Switch Body & Button:	Brass	Brass	Brass
Contacts:	Fine Silver	Fine Silver	Brass, Silver Plated, Silver
Thread size:	1.0” x 26TPI	0.747” x 26TPI	0.747” x 26TPI
RoHS	Compliant	Compliant	Compliant

Stainless Steel Large Diameter Vandal Resistant

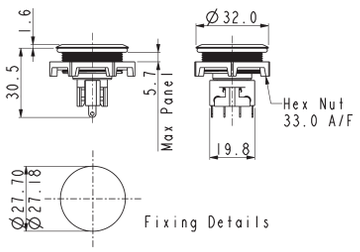
Momentary

Front Panel Mounting - Low Profile



MP0050

- Front Panel Sealed to IP68
- Flush button
- 32.0mm diameter
- S.P.C.O. switching
- Momentary action
- 5A, 250Vac

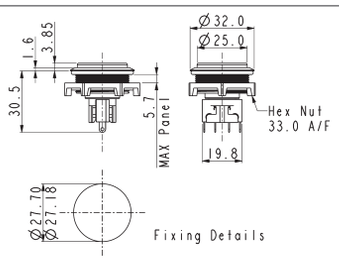


Front Panel Mounting - Protruding Profile



MP0050/2

- Front Panel Sealed to IP68
- Protruding button
- 32.0mm diameter
- S.P.C.O. switching
- Momentary action
- 5A, 250Vac



Specifications	MP0050	MP0050/2
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac. 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10³ MΩ	>10³ MΩ
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +70°C	–20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations		
Mechanical:	1,000,000 (min)	1,000,000 (min)
Electrical:	35,000 (min)	35,000 (min)
Operating Pressure:	4.7Nm	4.7N (typ)
Rear Nut Fixing Torque:	0.57Nm	0.57Nm
Materials		
Mouldings:	Glass Filled Nylon	Glass Filled Nylon
Tags/Terminations:	Brass, Tin Plated	Brass, Tin Plated
Switch Body & Button:	Stainless Steel	Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	M27 x 1.0-6H	M27 x 1.0-6H
RoHS	Compliant	Compliant

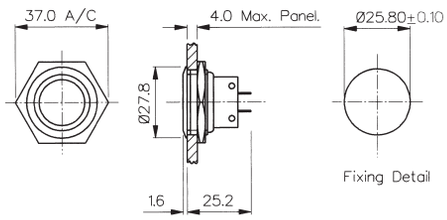
Stainless Steel Domed Vandal Resistant

Front Panel Mounting



MP0027/3

- 28mm diameter
- Domed Profile
- S.P.C.O. Microswitch
- 5A, 250Vac

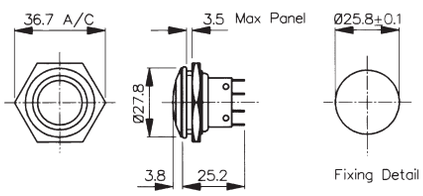


Front Panel Mounting



MP0038/3
Sealed to IP66

- Front Panel Sealed to IP66
- 28mm diameter
- Domed Profile
- S.P.C.O. Microswitch
- 5A, 250Vac



Specifications	MP0027/3	MP0038/3
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac. 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10³ MΩ	>10³ MΩ
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +70°C	–20°C to +70°C
Sealing (Front of panel only):		Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	 1,000,000 (min) 35,000 (min)	 1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	12.5N (typ)
Rear Nut Fixing Torque:	2.5Nm	1.13Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	 Glass Filled Nylon Brass, Tin Plated Stainless Steel	 Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	1.0” x 26TPI	0.747” x 26TPI
RoHS	Compliant	Compliant

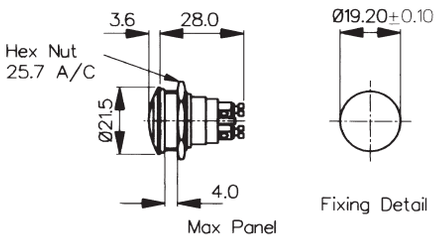
Stainless Steel Domed Vandal Resistant

Front Panel Mounting



MP0037/3
Sealed to IP68

- Front Panel Sealed to IP68
- 21.5mm diameter
- Domed Profile
- S.P. Push to Make
- 1A, 50Vac/dc

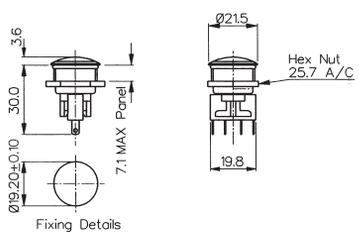


Front Panel Mounting



MP0031/3
Sealed to IP66

- Front Panel Sealed to IP66
- 21.5mm diameter
- Domed Profile
- S.P.C.O. Microswitch
- 5A, 250Vac



Specifications	MP0037/3	MP0031/3
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^5$ MΩ	$>10^3$ MΩ
Dielectric Strength:	>1.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +70°C	–20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP68 EN60529-1:1992 + A2:2013. (Micro switch not sealed) (10m for 2 weeks)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	 1,000,000 (min) 35,000 (min)	 1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	4.7N (typ)
Rear Nut Fixing Torque:	2.5Nm	0.57Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	 Glass Filled Nylon Brass, Tin Plated Stainless Steel	 Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Brass, Silver Plated, Silver	Fine Silver
Thread size:	0.747” x 26TPI	0.747” x 26TPI
RoHS	Compliant	Compliant

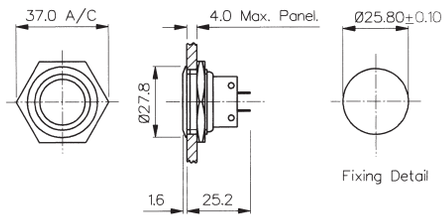
Stainless Steel Prominent Button Vandal Resistant

Front Panel Mounting



MP0027/2

- 28mm diameter
- Prominent Button
- S.P.C.O. Microswitch
- 5A, 250Vac

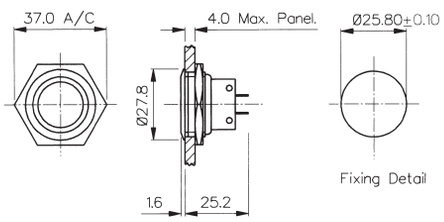


Front Panel Mounting



MP0038/2
Sealed to IP66

- Front Panel Sealed to IP66
- 28mm diameter
- Prominent Button
- S.P.C.O. Microswitch
- 5A, 250Vac



Specifications	MP0027/2	MP0038/2
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10³ MΩ	>10³ MΩ
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +70°C	–20°C to +70°C
Sealing (Front of panel only):		Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations		
Mechanical:	1,000,000 (min)	1,000,000 (min)
Electrical:	35,000 (min)	35,000 (min)
Operating Pressure:	7.5N (typ)	12.5N (typ)
Rear Nut Fixing Torque:	2.5Nm	1.13Nm
Materials		
Mouldings:	Glass Filled Nylon	Glass Filled Nylon
Tags/Terminations:	Brass, Tin Plated	Brass, Tin Plated
Switch Body & Button:	Stainless Steel	Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	1.0” x 26TPI	1.0” x 26TPI
RoHS	Compliant	Compliant

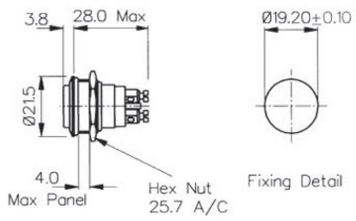
Stainless Steel Prominent Button Vandal Resistant

Front Panel Mounting



MP0037/2
Sealed to IP68

- Front Panel Sealed to IP68
- 21.5mm diameter
- Prominent Button
- S.P. Push to Make
- 1A, 50Vac/dc

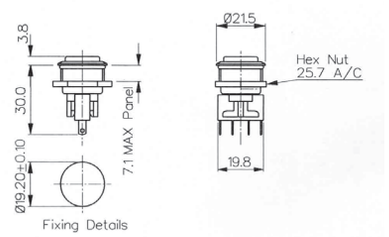


Front Panel Mounting



MP0031/2
Sealed to IP66

- Front Panel Sealed to IP66
- 21.5mm diameter
- Prominent Button
- S.P.C.O. Microswitch
- 5A, 250Vac



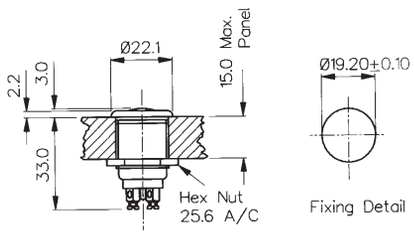
Specifications	MP0037/2	MP0031/2
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Slow momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^5$ MΩ	$>10^3$ MΩ
Dielectric Strength:	>1.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +70°C	–20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP68 EN60529-1:1992 + A2:2013. (Micro switch not sealed) (10m for 2 weeks)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	 1,000,000 (min) 35,000 (min)	 1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	4.7N (typ)
Rear Nut Fixing Torque:	0.57Nm	0.57Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	 Glass Filled Nylon Brass, Tin Plated Stainless Steel	 Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Brass, Silver Plated, Silver	Fine Silver
Thread size:	0.747” x 26TPI	0.747” x 26TPI
RoHS	Compliant	Compliant

Front Panel Mounting



MP0013
MP0033

- Proud Fitting
- 22mm diameter
- S.P. Push to Make
- 1A, 50V
- Brass, Chrome Plated Body, Stainless Steel Button
- MP0033 Internally Sealed

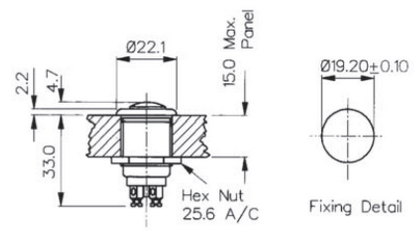


Front Panel Mounting



MP0013/2
MP0033/2

- Prominent Button
- 22mm diameter
- S.P. Push to Make
- 1A, 50V
- Brass, Chrome Plated Body, Stainless Steel Button
- MP0033/2 Internally Sealed



Specifications	MP0013, MP0033	MP0013/2, MP0033/2
Terminations:	Screw Terminals	Screw Terminals
Switching:	S.P. Push to make Slow momentary action	S.P. Push to make Slow momentary action
Max. Rating:	1A, 50Vac/dc	1A, 50Vac/dc
Contact Resistance:	<15mΩ	<15mΩ
Insulation Resistance:	$>10^4$ MΩ	$>10^4$ MΩ
Dielectric Strength:	>2.5kVac	>2.5kVac
Operating Temp. Range:	–20°C to +85°C	–20°C to +85°C
Sealing (Front of panel only):	MP0033 only - internally sealed against ingress of water and dust. (IP68 Internal Testing)	MP0033/2 only - internally sealed against ingress of water and dust. (IP68 Internal Testing)
Materials Mouldings: Tags/Terminations: Switch Body & Button:	 Glass Filled Nylon Brass, Silver Plated Body: Brass, Chrome Plated Button: Stainless Steel	 Glass Filled Nylon Brass, Silver Plated Body: Brass, Chrome Plated Button: Stainless Steel
Contacts:	Copper, Silver Plated	Copper, Silver Plated
Thread Size:	0.747” x 26TPI	0.747” x 26TPI
RoHS	Compliant	Compliant

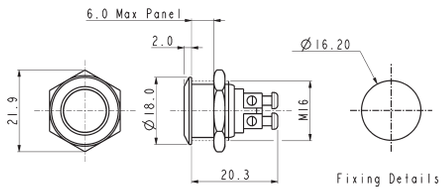
Stainless Steel - Momentary

Flush Profile



MP0042/1

- 18mm bezel diameter
- 16mm panel hole
- S.P. Push to make
- Polished finish
- 2A, 36Vdc

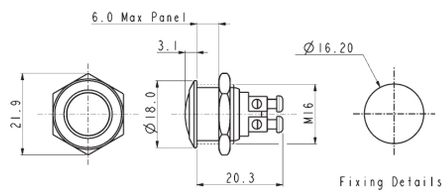


Domed Profile



MP0042/2

- 18mm bezel diameter
- 16mm panel hole
- S.P. Push to make
- Polished finish
- 2A, 36Vdc

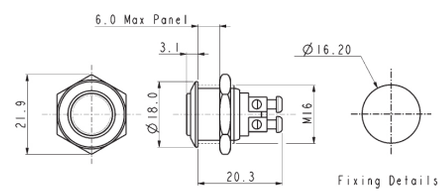


Prominent Button



MP0042/3

- 18mm bezel diameter
- 16mm panel hole
- S.P. Push to make
- Polished finish
- 2A, 36Vdc



Specifications	MP0042/1	MP0042/2	MP0042/3
Terminations:	Screw Terminals	Screw Terminals	Screw Terminals
Switching:	S.P. Push to make	S.P. Push to make	S.P. Push to make
Max. Rating:	2A, 36Vdc	2A, 36Vdc	2A, 36Vdc
Contact Resistance:	50mΩ at 1A, 2V	50mΩ at 1A, 2V	50mΩ at 1A, 2V
Insulation Resistance:	>10³ MΩ @ 500Vdc	>10³ MΩ @ 500Vdc	>10³ MΩ @ 500Vdc
Dielectric Strength:	>2.0kVac	>2.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +55°C	–20°C to +55°C	–20°C to +55°C
Operations Mechanical: Electrical:	 1,000,000 (min) 100,000 (min)	 1,000,000 (min) 100,000 (min)	 1,000,000 (min) 100,000 (min)
Rear Nut Fixing Torque:	12Nm	12Nm	12Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	 Nylon Brass, Silver Plated Stainless Steel (Polished)	 Nylon Brass, Silver Plated Stainless Steel (Polished)	 Nylon Brass, Silver Plated Stainless Steel (Polished)
Contacts:	Silver	Silver	Silver
Thread size:	Gold Plated Brass version available	Gold Plated Brass version available	Gold Plated Brass version available
Sealing:	IP65	IP65	IP65
Impact Rating:	IK08	IK08	IK08
RoHS	Compliant	Compliant	Compliant

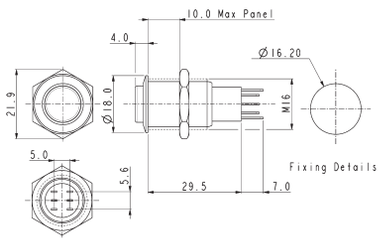
Stainless Steel - Momentary

Low Profile



MP0045/1D

- 18mm bezel diameter
- 16mm fixing hole diameter
- D.P.C.O
- 1A, 110Vac & 0.5A, 220Vac
- 1A, 12Vdc & 1A, 24Vdc

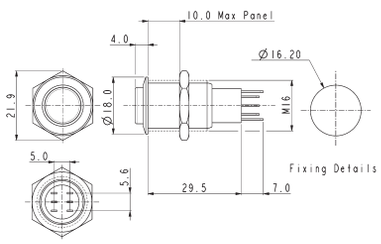


Prominent Button

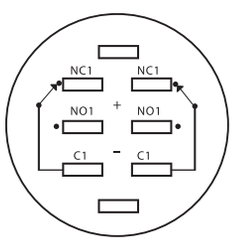


MP0045/3D

- 18mm bezel diameter
- 16mm fixing hole diameter
- D.P.C.O
- 1A, 110Vac & 0.5A, 220Vac
- 1A, 12Vdc & 1A, 24Vdc



Specifications	MP0045/1D0NN000/Sealing	MP0045/3D0NN000/Sealing
Terminations:	Solder tags	Solder tags
Switching:	D.P.C.O Momentary Action	D.P.C.O Momentary Action
Sealing: Part No.	IP67 IP40 /S BLANK	IP67 IP40 /S BLANK
Max. Rating:	1A, 110Vac & 0.5A, 220Vac 1A, 12Vdc & 1A, 24Vdc	1A, 110Vac & 0.5A, 220Vac 1A, 12Vdc & 1A, 24Vdc
Contact Resistance:	50mΩ max. @ 1A, 2V	50mΩ max. @ 1A, 2V
Insulation Resistance:	>10³ MΩ @ 500Vdc	>10³ MΩ @ 500Vdc
Dielectric Strength:	> 2.0kVac	> 2.0kVac
Operating Temp. Range:	–20°C to +55°C	–20°C to +55°C
Operations Mechanical: Electrical:	 200,000 (min) 30,000 (min)	 200,000 (min) 30,000 (min)
Rear Nut Fixing Torque:	12Nm	12Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	 Nylon Brass, Silver Plated Stainless Steel	 Nylon Brass, Silver Plated Stainless Steel
Contacts:	Silver	Silver
Variants:	Nickel Plated Brass version available Details on request	Nickel Plated Brass version available Details on request
RoHS	Compliant	Compliant



Contact Layout

Soldering Instructions:

- Soldering time less than 3 seconds
- Do not push on the terminals
- Recommended cuspidal soldering iron. Temperature around 280°C

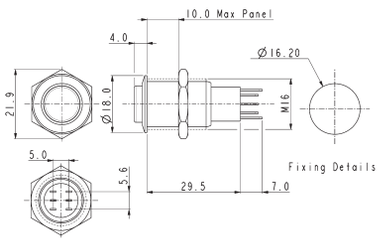
Stainless Steel - Latching

Low Profile



MP0045/1E

- 18mm bezel diameter
- 16mm fixing hole diameter
- D.P.C.O.
- 1A, 110Vac & 0.5A, 220Vac
- 1A, 12Vdc & 1A, 24Vdc

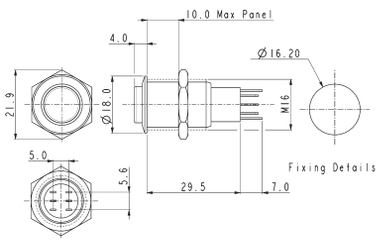


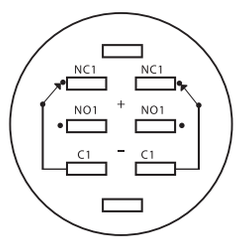
Prominent Button



MP0045/3E

- 18mm bezel diameter
- 16mm fixing hole diameter
- D.P.C.O.
- 1A, 110Vac & 0.5A, 220Vac
- 1A, 12Vdc & 1A, 24Vdc





Contact Layout

Specifications	MP0045/1E0NN000/Sealing	MP0045/3E0NN000/Sealing
Terminations:	Solder Tags	Solder Tags
Switching:	D.P.C.O. - Latching Action	D.P.C.O. - Latching Action
Sealing: Part No.	IP67 IP40 /S BLANK	IP67 IP40 /S BLANK
Max. Rating:	1A, 110Vac & 0.5A, 220Vac 1A, 12Vdc & 1A, 24Vdc	1A, 110Vac & 0.5A, 220Vac 1A, 12Vdc & 1A, 24Vdc
Contact Resistance:	50mΩ max. @ 1A, 2V	50mΩ max. @ 1A, 2V
Insulation Resistance:	>10³ MΩ @ 500Vdc	>10³ MΩ @ 500Vdc
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +55°C	–20°C to +55°C
Operations Mechanical: Electrical:	 200,000 (min) 30,000 (min)	 200,000 (min) 30,000 (min)
Rear Nut Fixing Torque:	12Nm	12Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	 Nylon Brass, Tin Plated Stainless Steel (Polished)	 Nylon Brass, Tin Plated Stainless Steel (Polished)
Contacts:	Silver	Silver
Thread size:	Nickel Plated Brass version Details on request	Nickel Plated Brass version Details on request
RoHS	Compliant	Compliant

Soldering Instructions:

- Soldering time less than 3 seconds.
- Do not push on the terminals.
- Recommended cuspidal soldering iron. Temperature around 280°C.

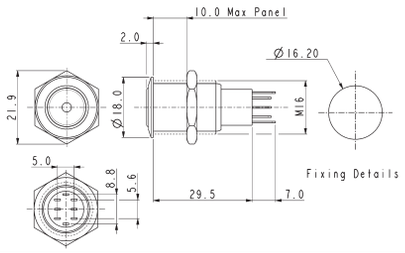
Stainless Steel Illuminated Momentary

Front Panel Mounting



MP0045/1D1

- Dot Illuminated
- 18mm bezel diameter
- D.P.C.O.
- 1A, 110Vac & 0.5A, 220Vac
- 1A, 12Vdc & 1A, 24Vdc
- Red, Green, Amber or Blue Illumination
- Separate LED Terminals

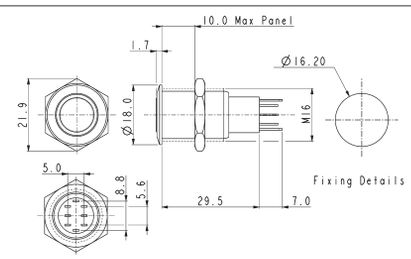


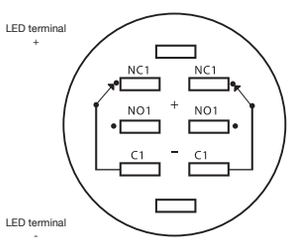
Front Panel Mounting



MP0045/1D2

- Ring Illuminated
- 18mm bezel diameter
- D.P.C.O.
- 1A, 110Vac & 0.5A, 220Vac
- 1A, 12Vdc & 1A, 24Vdc
- Red, Green, Amber or Blue Illumination
- Separate LED Terminals





Contact Layout

Specifications	MP0045/1D1/Colour/Voltage/Sealing	MP0045/1D2/Colour/Voltage/Sealing
Terminations:	Solder Tags	Solder Tags
Illumination:	Dot	Ring
Switching:	D.P.C.O. Momentary Action	D.P.C.O. Momentary Action
Sealing: Part No.	IP67 IP40 /S BLANK	IP67 IP40 /S BLANK
Max. Switch Rating:	1A, 110Vac & 0.5A, 220Vac 1A, 12Vdc & 1A, 24Vdc	1A, 110Vac & 0.5A, 220Vac 1A, 12Vdc & 1A, 24Vdc
LEDs Colours Part No.	 Red Green Amber Blue /RD /GN /AM /BL	 Red Green Amber Blue /RD /GN /AM /BL
Voltage Part No.	12Vdc 220Vdc /012 /220	12Vdc 220Vdc /012 /220
Contact Resistance:	50mΩ max. @ 1A, 2Vdc	50mΩ max. @ 1A, 2Vdc
Insulation Resistance:	>10³ MΩ @ 500Vac	>10³ MΩ @ 500Vac
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +55°C	–20°C to +55°C
Operations Mechanical: Electrical:	 200,000 (min) 30,000 (min)	 200,000 (min) 30,000 (min)
Rear Nut Fixing Torque:	12Nm	12Nm
Materials Mouldings: Tags: Switch Body & Button: Variants	 Nylon Brass, Silver Plated Stainless Steel (Polished) Prominent Button, details on request	 Nylon Brass, Silver Plated Stainless Steel (Polished) Prominent Button, details on request
RoHS	Compliant	Compliant

Soldering Instructions:

- Soldering time less than 3 seconds.
- Do not push on the terminals.
- Recommended cuspidal soldering iron. Temperature around 280°C.

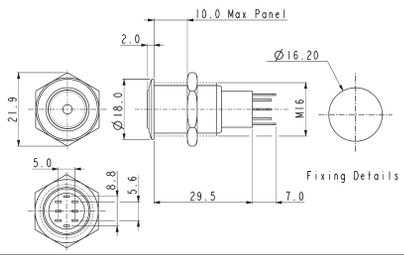
Stainless Steel Illuminated Latching

Front Panel Mounting



MP0045/1E1

- Dot Illuminated
- 18mm bezel diameter
- D.P.C.O.
- 1A, 110Vac & 0.5A, 220Vac
- 1A, 12Vdc & 1A, 24Vdc
- Red, Green, Amber or Blue Illumination
- Separate LED Terminals

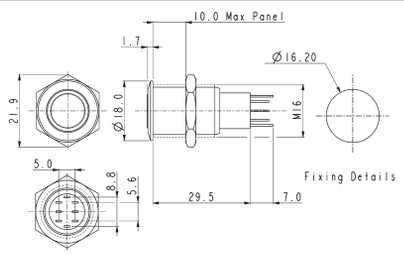


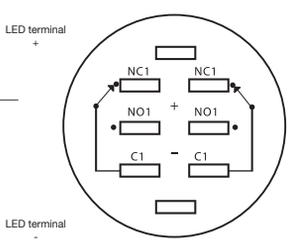
Front Panel Mounting



MP0045/1E2

- Ring Illuminated
- 18mm bezel diameter
- D.P.C.O.
- 1A, 110Vac & 0.5A, 220Vac
- 1A, 12Vdc & 1A, 24Vdc
- Red, Green, Amber or Blue Illumination
- Separate LED Terminals





Contact Layout

Specifications	MP0045/1E1/Colour/Voltage/Sealing	MP0045/1E2/Colour/Voltage/Sealing
Terminations:	Solder Tags	Solder Tags
Illumination:	Dot	Ring
Switching:	D.P.C.O. Latching Action	D.P.C.O. Latching Action
Sealing: Part No.	IP67 IP40 /S BLANK	IP67 IP40 /S BLANK
Max. Switch Rating:	1A, 110Vac & 0.5A, 220Vac 1A, 12Vdc & 1A, 24Vdc	1A, 110Vac & 0.5A, 220Vac 1A, 12Vdc & 1A, 24Vdc
LEDs Colours Part No.	 Red Green Amber Blue /RD /GN /AM /BL	 Red Green Amber Blue /RD /GN /AM /BL
Voltage Part No.	12Vdc 220Vdc /012 /220	12Vdc 220Vdc /012 /220
Contact Resistance:	50mΩ max. @ 1A, 2Vdc	50mΩ max. @ 1A, 2Vdc
Insulation Resistance:	>10³ MΩ @ 500Vac	>10³ MΩ @ 500Vac
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +55°C	–20°C to +55°C
Operations Mechanical: Electrical:	 200,000 (min) 30,000 (min)	 200,000 (min) 30,000 (min)
Rear Nut Fixing Torque:	12Nm	12Nm
Materials Mouldings: Tags: Switch Body & Button: Variants	 Nylon Brass, Silver Plated Stainless Steel (Polished) Prominent Button, details on request	 Nylon Brass, Silver Plated Stainless Steel (Polished) Prominent Button, details on request
RoHS	Compliant	Compliant

Soldering Instructions:

- Soldering time less than 3 seconds.
- Do not push on the terminals.
- Recommended cuspidal soldering iron. Temperature around 280°C.

Manufactured from Stainless Steel, Bulgin's extensive range of vandal resistant security switches are designed with a high resistance to wear and tear, corrosion and harsh use in potentially hostile environments such as access control applications.

- Front and rear panel mounted versions
- Vandal switches available in prominent, domed and low profile
- Various switching options such as latching, push on - push off, action.
- IP66, 68 front panel sealing options
- Dot and ring LED illuminated versions
- Illumination voltages 6, 12 and 24V sources,
- Variety of illumination colours and are now available with front and rear of panel sealing options.



8300 Vandal Resistant Switches

Designed to IP66



H8300RP - - -

Key Features

- Momentary or latching action
- Ratings up to 12(12) @ 250Vac
- Single and double Contacts
- Stainless steel button & bezel
- Vandal resistant construction
- Choice of body styles
- 19.2mm or 22.5mm mounting holes
- Front panel sealed to IP66
- Raised, flat or domed actuator options

Approvals and specifications

12 A GP, 250 Vac, T85
13 A GP, 250 Vac, T85
1 hp, 250 Vac, T85, 6E3/1E4

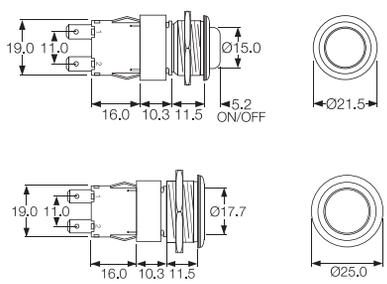
12A 250Vac DP, 13A 250Vac SP
250Vac 1hp, 125Vac 1/2hp
UL 85°C, file E45221

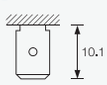
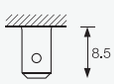
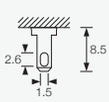
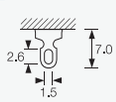
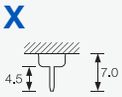
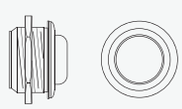
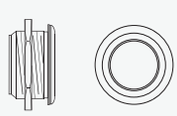
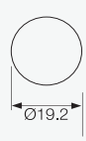
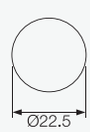
In house test:
10(10)A 250Vac—Indicative rating only

3mm contact gap.

Dimensions

8300RP (H terminals shown)



Terminal	Function	Actuator	Body Code
C  **H**  **K**  **T**  **V**  **X** 	**8300** (alternate) Single Contact ON - OFF **8301** (momentary ON) Single Contact ON - OFF **8350** (alternate) Double Contact ON - OFF  **8351** (momentary ON) Double Contact ON - OFF 	**R** (for P body only) Raised top (stainless steel)  **V** Flat top (stainless steel) 	**P** (for R actuator only) Stainless steel, Soft profile bezel  **M** Stainless steel 

0911 Vandal Resistant Switches

Designed to IP66



C0911VA - - -

Key Features

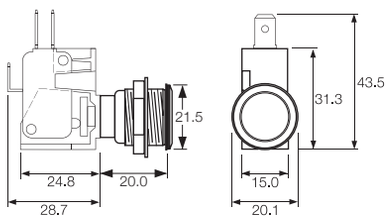
- Snap action switches
- Ratings up to 16A, 250Vac
- Round and rectangular buttons
- Single Contact C/O Switch

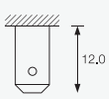
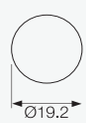
Approvals and specifications

Approvals apply to switch mechanism only.
μ contact gap.

Dimensions

C0911VA



Terminal	Function	Actuator	Body Code
	**0911** (momentary) ON - ON 	**V** Flat top (stainless steel) 	**A** Stainless steel Chamfer profile bezel  Panel cut-out Panel thickness up to 8.0mm

Bulgin's broad line of pushbutton switches are available in various sizes and configurations. This includes a variety of illumination and terminal options as well as several with high inductive power ratings suitable for motor driven applications. These switches can be found in many markets including home appliances, commercial, medical, audio and security.

- Miniature, round and rectangular push button switches available
- Ratings up to 16A, 250V ac 12(12)A 250V ac rating also available
- Latching and momentary actions
- Choice of actuators (custom option also available)
- Square and Round Mounting Styles



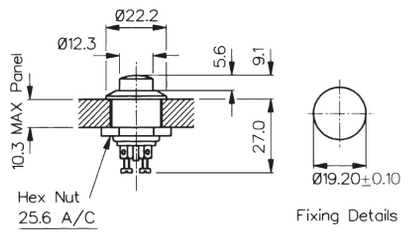
Push Button

Front Panel Mounting



MP0012/Col

- 22mm diameter
- Prominent Button
- S.P. Push to Make
- Screw Terminals
- Brass, Chrome Plated Body, Glass Filled Nylon Button

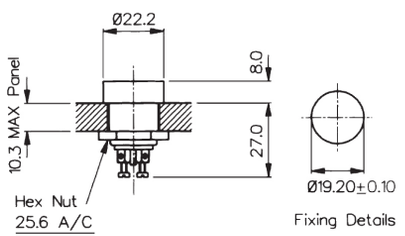


Front Panel Mounting



MP0012/1/Col

- 22mm diameter
- Recessed Button
- S.P. Push to Make
- Screw Terminals
- Brass, Chrome Plated Body, Glass Filled Nylon Button

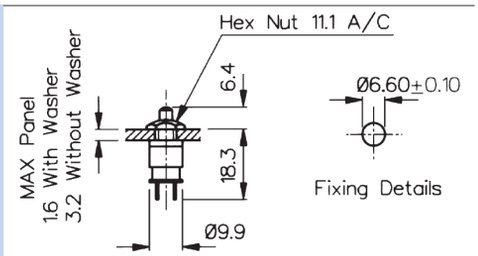


Rear Panel Mounting



MP0016

- S.P. Push to Make
- Solder Tags
- 1A, 28Vac/dc
- Brass Nickel Plated Body, Glass Filled Nylon Button



Specifications	MP0012/Colour	MP0012/1/Colour	MP0016/Colour
Terminations:	Screw Terminals	Screw Terminals	Solder Tags
Switching:	S.P. Push to Make Slow Momentary Action	S.P. Push to Make Slow Momentary Action	S.P. Push to Make Slow Momentary Action
Max. Rating:	0.25A. 250Vac, 1A. 110Vac, 2A. 12Vac/dc	0.25A. 250Vac, 1A. 110Vac, 2A. 12Vac/dc	1A 28Vac/dc (non-inductive)
Contact Resistance:	<15mΩ	<15mΩ	<15mΩ
Insulation Resistance:	$>10^4$ MΩ	$>10^4$ MΩ	$>10^4$ MΩ
Dielectric Strength:	>2.5kVac	>2.5kVac	>2.0kVac
Operating Temp. Range:	–20°C to +85°C	–20°C to +85°C	–20°C to +85°C
Operation Pressure (typ):	9.18 newtons	9.18 newtons	6.22 newtons
Materials Moulding: Body:	Glass Filled Nylon Brass, Brass, Chrome Plated	Glass Filled Nylon Brass, Brass, Chrome Plated	Glass Filled Nylon Brass, Brass, Chrome Plated
Contacts/Terms:	Brass, Silver Plated	Brass, Silver Plated	Brass, Silver Plated
Variant	Button Colour: Standard - Black, /RD (Red)	Button Colour: Standard - Black, /RD (Red)	Button Colour: Standard - Black, /RD (Red)
RoHS	Compliant	Compliant	Compliant

8300 Series Push Button

8(8)A 250Vac & 12(12)A 250Vac



Key Features

- Miniature push button
- 8A Inductive current rating
- Ratings up to 12(12)A, 250V ac (H suffix)
- Illuminated and nonillumi-nated
- Single and double Contact
- Latching and momentary
- Slotted actuator for custom buttons
- Industry standard panel cutout
- Panel cut out: 19.3 x 12.9

Approvals and specifications

12 A GP, 250 Vac, T85
13 A GP, 250 Vac, T85
1 hp, 250 Vac, T85, 6E3/1E4

8350, 8351, 8353, 8354
12A 250Vac DP, 250Vac 1hp, 125Vac 1/2hp

8300, 8301, 8303, 8304
13A 250Vac SP, 250Vac 1hp, 125Vac 1/2hp

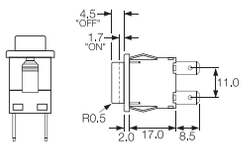
In house test:
10(10)A 250Vac—Indicative rating only

3mm contact gap.

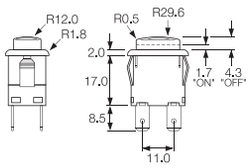
Terminal	Function	Actuator	Body Code	Body Colour
C 10.1, 6.3 x 0.8 **H** 8.5, 4.8 x 0.8 **A** 7.6, As "H" but right angle 4.8 x 0.8 **K** 8.5, 2.6, 1.5, 2.8 x 0.8 **T** 7.0, 2.6, 1.5, Solder **X** 7.0, 4.5, PCB 0.8 Sq **V** 4.3, 3.7Ctrs, Dual Plug PCB (Call sales for mounting dims)	1 2 3 4 Approvals & ratings vary with function. Single Contact switches use terminals 1 & 2 (& 3) **8300** Single Contact ON - OFF **8301** Single Contact ON - OFF (momentary ON) **8303** Single Contact ON - OFF With Light **8304** Single Contact ON - OFF (momentary ON) with light **8350** Double Contact ON - OFF **8351** Double Contact ON - OFF (momentary ON) **8353** Double Contact ON - OFF With light **8354** Double Contact ON - OFF (momentary ON) with light **8355** Single Contact ON - OFF Isolated light - switched C, E & M actuators only **8356** Single Contact ON - OFF Isolated light - unswitched C, E & M actuators only	**A** Standard actuator **H** Slotted for custom caps (Slots for snap-in buttons) **C** Square actuator **E** Radiused actuator **F** Small round actuator **J** Smooth curved actuator **M** **D** Large round actuator All actuators except H available lit	Panel cut-out ** Bezel **B** Standard body (12.9, X, 15.0, 21.0) **E** Softline style body with radiused bezel (12.9, X, 15.0, 21.0) Cut-outs must be punched in the direction of insertion **Dimensions for snap-in fixing** Panel thickness: 0.75-1.24, 1.25-1.99, 2.00-3.00 Dimension X: 19.1/19.2, 19.3/19.4, 19.7/19.8 X and V PCB terminals. Additional dummy terminals may be supplied for extra support.	**B** Black **W** White

Dimensions

Actuator A
Body B



Actuator J
Body E



Examples



H8350AB - - -
T8350AB - - -



H8353JE - - -
T8353JE - - -



H8353EB - - -
T8353EB - - -



H8353CB - - -
T8353CB - - -

Actuator Colour	Lamp Voltage	Legend	Legend Colour	Options
LIT				
A Amber	– None			H 12(12)A 250Vac switch rating Finish Matt finish standard except on J and D actuators which are gloss Colour Call sales for custom colours A full range is available for large orders Legend printing Select from the examples or call sales for custom legends. Special buttons Some of the many options are shown Call sales for the full range L167 Protective cover
C Clear	**2** 125V Neon			
G Green	**3** 250V Neon			
R Red	**7** 12V Filament			
UNLIT	**8** 24V Filament			
B Black				
R Red				
W White				

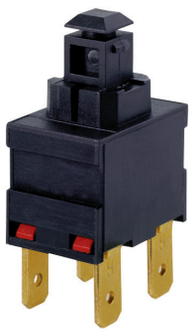


Snaps on to switch bodies fitted with “A” or “J” style actuators, this reduces panel thickness by 0.8mm

BioCote Antimicrobial Additive
Moulded components have antimicrobial properties using BioCote silver ion technology.

8200 Series Push Button

8(8)A 250Vac & 12(12)A 250Vac



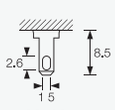
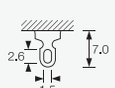
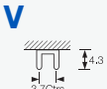
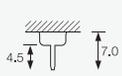
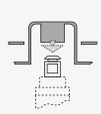
Key Features

- Miniature push button
- 8A Inductive current rating
- Ratings up to 12(12)A, 250V ac (H suffix)
- Without button
- Sub panel mount
- Push on, solder or PCB terminals
- Latching and momentary

Approvals and specifications

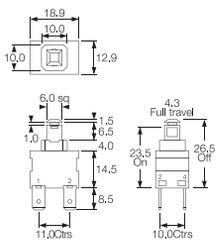
12 A GP, 250 Vac, T85
13 A GP, 250 Vac, T85
1 hp, 250 Vac, T85, 6E3/1E4)

12A 250Vac
250Vac 1hp, 125Vac 1/2hp
3mm contact gap.

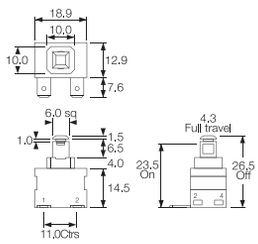
Terminal	Function	Actuator	Body Code
C  6.3 x 0.8 **H**  4.8 x 0.8 **A**  As "H" but right angle 4.8 x 0.8 **K**  2.8 x 0.8 **T**  Solder **V**  Dual Plug PCB (Call sales for mounting dims) **X**  PCB 0.8 Sq	 Approvals & ratings vary with function Single Contact switches use terminals 1 & 2 (& 3) **8200** Single Contact ON - OFF  **8201** Single Contact ON - OFF (momentary ON)  **8250** Double Contact ON - OFF  **8251** Double Contact ON - OFF (momentary ON) 	**A** Standard actuator for snap-on custom adaptors  **B** Flat top actuator  **C** Curved top actuator  **Examples of possible actuation methods** Using a Snap on adaptor  Using a Hinged Actuator 	**A** Standard body  See dimensioned drawings for details **C** As standard body but with side support peg for use with M PCB terminals  X and V PCB terminals. Additional dummy terminals may be supplied for extra support.

Dimensions

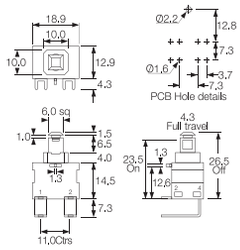
'A' body with 'H' 4.8 terminals



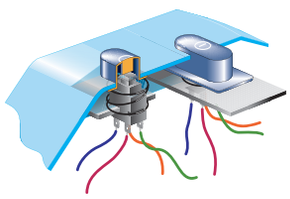
'A' body with 'A' right angle 4.8 terminals



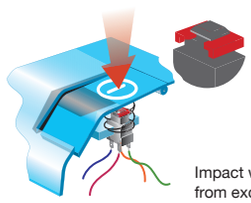
'C' body with 'M' right angle PCB terminals



Example of possible mounting styles



Alternative Actuator



Impact washer resists damage from excessive operator force

Examples



C8250AA - - - with impact washer M1226



X8201AA - - -



K8200AA - - -



A8200AA - - -



M8200AC - - -



Example of M8200AC

7000 Series Push Button

16A 250Vac



Key Features

- Round and rectangular push button switches
- Ratings up to 16A, 250V ac
- Latching and momentary
- Illuminated & non-illuminated
- Matching indicators
- Low profile version
- Panel cut outs: 25.0 dia 27.2 x 22.3

Approvals and specifications

16(4)A 250Vac T85/55
8(8)A 250Vac T85/55 (pending)

UL CSA 16A Non Ind, 250Vac 1hp, 125Vac 1/2hp
UL 65°C, file no. E45221

3mm contact gap.

Terminal	Function	Actuator	Body Code

Terminal

C



H



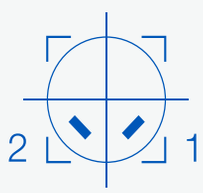
Function



Approvals & ratings vary with function
Single Contact switches use terminals 1 & 2 (& 3)

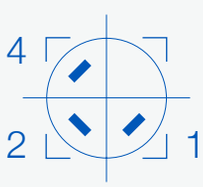
7000
Single Contact
ON - OFF

7001
Single Contact (momentary)
ON - OFF



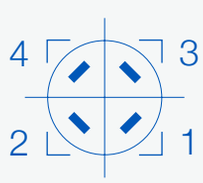
7003
Single Contact (with light)
ON - OFF

7004
Single Contact (momentary) with light
ON - OFF



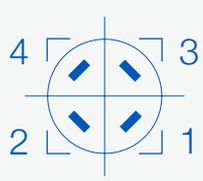
7050
Double Contact
ON - OFF

7051
Double Contact with light
ON - OFF

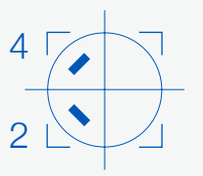


7053
Double Contact with light
ON - OFF

7054
Double Contact (momentary ON) with light
ON - OFF

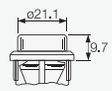


7030
Indicator
UL E63363
CSA LR29381



Actuator

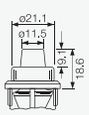
A Round actuator shown in F body



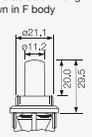
A Round actuator shown in G body



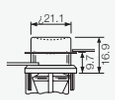
B Round actuator - medium shown in F body



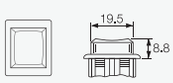
C Round actuator - long shown in F body



D Round actuator - sub panel mount



S Rectangular actuator
Shown in "A" body
N/A for 7030

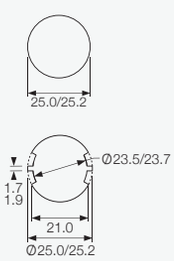


Body Code

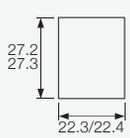
Panel cut-outs

F H G

Body types fit either cut-out



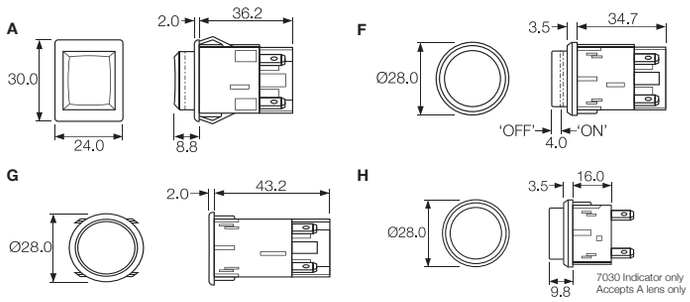
A



Cut-outs must be punched in the direction of insertion

Dimensions

Panel thickness:
A - 0.8 - 2.5mm
F, G, H - 0.8 - 5.0mm



Examples


C7000AF - - -


C7003AF - - -


C7050SA - - -


C7053AG - - -

Body Colour	Actuator Colour	Lamp Voltage	Legend	Legend Colour
	LIT			
B Black	**A** Amber	**_** None		
W White	**C** Clear	**2** 125V Neon		
	G Green	**3** 250V Neon		
	R Red	**7** 12V Filament		
		8 24V Filament		
	UNLIT			
	B Black			
	R Red			
	W White			

Options

Finish
Matt finish is standard on bodies.
Gloss finish is standard on actuators.

Colour
Call sales for custom colours.
A full range is available for large orders.

Legend printing
A wide range is available or call sales for custom legends.

Lamp voltage
Call sales for details of available voltages.

Weatherproof housing (E)
Additional housing which fits round body switches with an oversize housing with a clear silicone cover designed to IP65.
Mounting hole dia: 38.0mm

0911 Push Button Switches

0.5A 250Vac



C0911PB - - -



C0911RB - - -



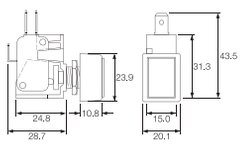
C0911KB - - -

Key Features

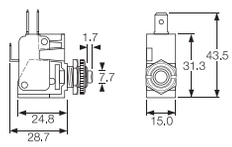
- Snap action switches
- Ratings up to 16A, 250Vac
- Round and rectangular buttons

Dimensions

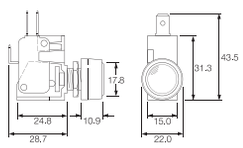
R

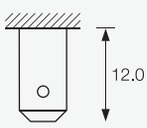
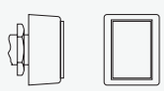
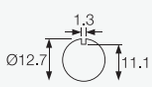


P



K & N



Terminal	Function	Actuator	Body Code	Options
	**0911** (momentary) ON - ON 	**R** Rectangular bezel  **P** Short  **K** with satin chrome bezel  **N** with nylon bezel 	 Panel Cut-out Panel thickness Both nuts 2.5mm No backnut 4.0mm	Call factory for custom colours







Key Features

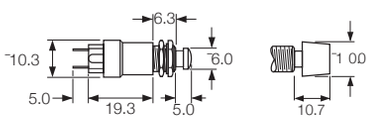
- Self wiping contacts
- Slow make & break
- Momentary action
- Choice of switch circuits
- Choice of actuators

Approvals and specifications

In house test:
0.5A 250Vac T85 — Indicative rating only

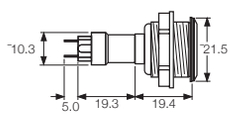
Dimensions

Dimensions (mm) Nylon S and L actuators

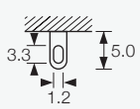
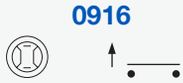
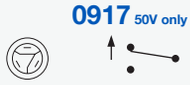
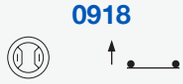
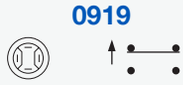
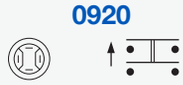
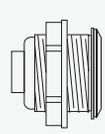
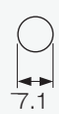
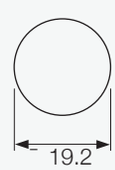


Neck thread - 40 TPI Whit. Actuator travel - 2.5 max

Stainless steel V actuator (IP66)



Neck thread - 26 TPI Whit. Actuator travel - 2.5 max

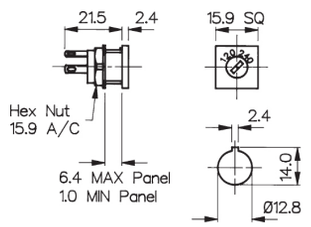
Terminal	Function	Actuator	Body Code	Options
T  Solder	**0916**  Black base SP ON - OFF (momentary) **0917** 50V only  Brown base SP ON - OFF (momentary 1 side) **0918**  White base SP ON - OFF (momentary OFF) **0919**  Black base DP ON - OFF (momentary 1 side) **0920**  White base DP ON - OFF (momentary ON)	**S** Small Actuator  **L** Large Actuator  **V** Vandal Resistant IP66 Flattop Stainless Steel 	 Panel Cut-out (L & S Actuators) Panel thickness Both nuts - 2.5mm No Backnut - 4.0  Panel Cut-out (Stainles Steel V Actuator) Panel thickness - 8.0mm	Finish Gloss finish for L and S actuators. Colour Call sales for custom colours. A full range is available for large orders.

120/140V Voltage Selector



VS0001

- 2.8 series tabs/solder tags
- Square Front Bezel
- 6.3A



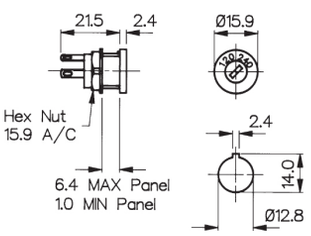
Fixing Details

120/240V Voltage Selector



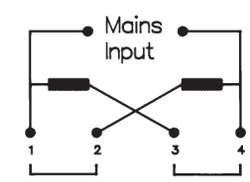
VS0002

- 2.8 series tabs/Solder tags
- Round Front Bezel
- 6.3A

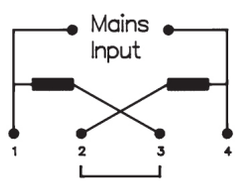


Fixing Details

Connection Parallel 120V



Connection Series 240V



Specifications	VS0001	VS0002
Max. Rating:	6.3A, 120 / 240	6.3A, 120 / 240
Insulation Resistance:	>106 MΩ	>106 MΩ
Termination:	2.8 series tabs/solder tags	2.8 series tabs/solder tags
Temperature Range:	–20°C to +85°C	–20°C to +85°C
Materials: Mouldings: Tags:	 Glass Filled Nylon UL94V-1 Brass, Silver Plated	 Glass Filled Nylon UL94V-1 Brass, Silver Plated
Contacts:	Copper Silver Alloy	Copper Silver Alloy
Variants:	Other markings, details on request	Other markings, details on request
RoHS		Compliant

Activated by the touch of a finger, our Capacitive Switches are ideal for many repetitive applications requiring a rugged sealed and easy to use switch solution.



- Sealed to IP68 and IP69K
- Momentary or latching functions
- Large or thin ring illumination options
- Long life operation – 50 million of cycles
- 16, 19, 22 or 25mm diameter options
- Easy to use and clean
- Extremely robust and durable – IK10 rated
- No operating force required – ideal for repetitive applications
- Activated by the touch of a finger – even with surgeon gloves
- Natural, black and red anodised options as well as 316L stainless steels

Capacitive Switches - 16mm

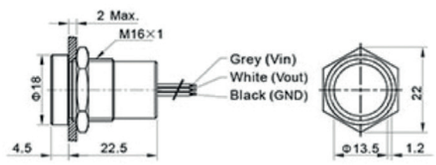
16mm Illuminated





MC16

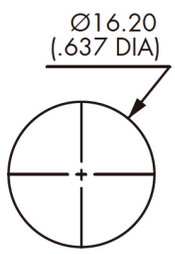
- Illuminated
- 300 mm lead



Specification

	MC16
Type	Momentary / Latching
Materials	Case: Aluminium, Anodised and Stainless Steel
	Multi-wire leads setion 0.22mm² (length 300mm)
Maximum Current / Voltage Rating:	500mA at 5V, 12V or 24VDC
Supply Voltage	5, 12 or 24 VDC
Contact Resistance	20mΩ
LED state for output image option	1 LED: The LED is ON when output is closed.
	2 LEDS: First colour is ON when the output is open. Second colour is ON when the output is closed.
Actuating force, typically	Zero Newton's (Touch Sensitive)
Life cycle	>50 Million

Panel Cutout Dimensions



Panel cutout: Ø16.20 (.637 DIA)

Environmental Specification

Sealing	IP68 (2m depth for >30mins) IP69K
Operating temperature	-25°C to +55°C
RoHS	Compliant

Circuit Specification

See wiring diagrams on page 47

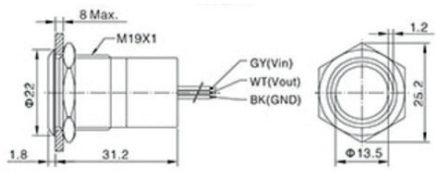
Capacitive Switches - 19mm

19mm Illuminated



MC19

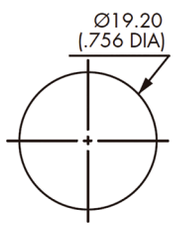
- Illuminated
- 300 mm lead



Specification

	MC19
Type	Momentary / Latching
Materials	Case: Aluminium, Anodised and Stainless Steel
	Multi-wire leads setion 0.22mm² (length 300mm)
Maximum Current / Voltage Rating:	500mA at 5V, 12V or 24VDC
Supply Voltage	5, 12 or 24 VDC
Contact Resistance	20mΩ
LED state for output image option	1 LED: The LED is ON when output is closed.
	2 LEDS: First colour is ON when the output is open. Second colour is ON when the output is closed.
Actuating force, typically	Zero Newton's (Touch Sensitive)
Life cycle	>50 Million

Panel Cutout Dimensions



Panel cutout: Ø19.20 (.756 DIA)

Environmental Specification

Sealing	IP68 (2m depth for >30mins) IP69K
Operating temperature	-25°C to +55°C
RoHS	Compliant

Circuit Specification

See wiring diagrams on page 47

Capacitive Switches - 22mm

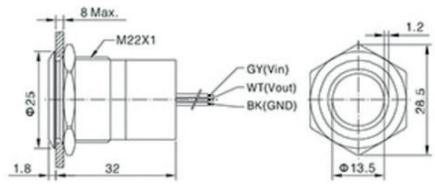
22mm Illuminated





MC22

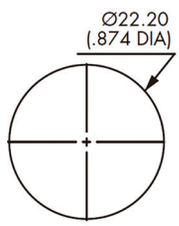
- Illuminated
- 300 mm lead



Specification

	MC22
Type	Momentary / Latching
Materials	Case: Aluminium, Anodised and Stainless Steel
	Multi-wire leads setion 0.22mm² (length 300mm)
Maximum Current / Voltage Rating:	500mA at 5V, 12V or 24VDC
Supply Voltage	5, 12 or 24 VDC
Contact Resistance	20mΩ
LED state for output image option	1 LED: The LED is ON when output is closed.
	2 LEDS: First colour is ON when the output is open. Second colour is ON when the output is closed.
Actuating force, typically	Zero Newton's (Touch Sensitive)
Life cycle	>50 Million

Panel Cutout Dimensions



Panel cutout: Ø22.20 (.874 DIA)

Environmental Specification

Sealing	IP68 (2m depth for >30mins) IP69K
Operating temperature	-25°C to +55°C
RoHS	Compliant

Circuit Specification

See wiring diagrams on page 47

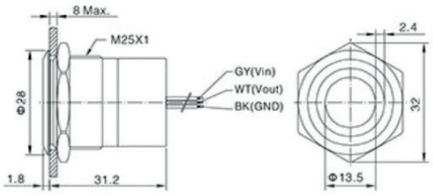
Capacitive Switches - 25mm

25mm Illuminated



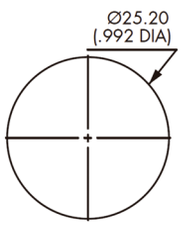
MC25

- Illuminated
- 300 mm lead



Specification	MC25
Type	Momentary / Latching
Materials	Case: Aluminium, Anodised and Stainless Steel Multi-wire leads setion 0.22mm² (length 300mm)
Maximum Current / Voltage Rating:	500mA at 5V, 12V or 24VDC
Supply Voltage	5, 12 or 24 VDC
Contact Resistance	20mΩ
LED state for output image option	1 LED: The LED is ON when output is closed. 2 LEDS: First colour is ON when the output is open. Second colour is ON when the output is closed.
Actuating force, typically	Zero Newton's (Touch Sensitive)
Life cycle	>50 Million

Panel Cutout Dimensions



Panel cutout: Ø25.20 (.992 DIA)

Environmental Specification

Sealing	IP68 (2m depth for >30mins) IP69K
Operating temperature	-25°C to +55°C
RoHS	Compliant

Circuit Specification

See wiring diagrams on page 47

Capacitive Switches - Part No System

Part No System

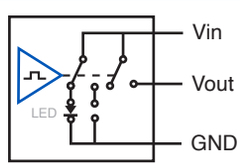
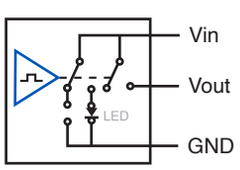
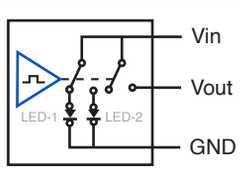
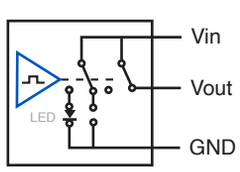
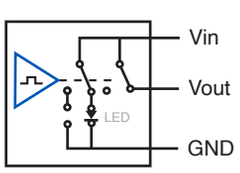
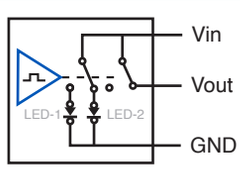
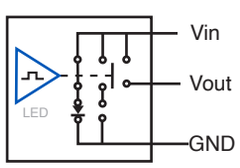
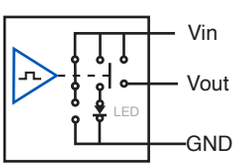
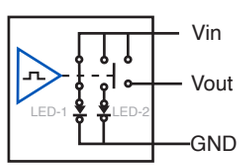
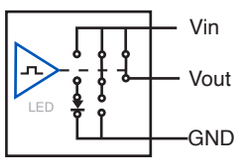
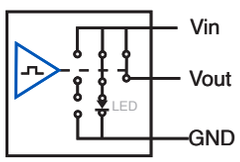
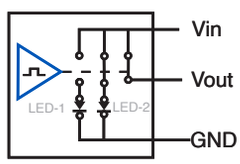
MC	/	XX	/	X	/	X	/	X	/	X	/	XX	/	XX

Series	Switch Size	Switch Function	Switch Status	Colour / Material	LED Colours	Voltage
MC-Capacitive Switch	16 = 16mm 19 = 19mm 22 = 22mm 25 = 25mm	M = Momentary L = Latching	O = Normally Open C = Normally Closed	B = Black Anodised R = Red Anodised S = Stainless Steel	GN = GREEN (1 LED) RD = RED (1 LED) AM = AMBER (1 LED) RG = RED + GREEN (2 LEDS) GR = GREEN + RED (2 LEDS) Blank = Non-illuminated	05 = 5VDC 24 = 24VDC * No Suffix = 12VDC

Note:
2 LED's option: when the output circuit open, first LED color lights. Second LED lights when the output circuit closes

Examples:
MC16MOSRD = 16mm, Stainless Steel, Momentary Normally Open, Red Illumination, 12VDC
MC22LOBRG24 = 22mm, Black Anodised, Catching Normally Open, Red and Green Ilumination, 24VDC

Circuit Specifications

Wiring Diagrams			
	1 LED		2 LEDS
	Output Indicator	Output Indicator	Output Indicator
OFF-ON (momentary) Normally Open			
ON-OFF (momentary) Normally Closed			
OFF-ON (latching) Normally Open			
ON-OFF (latching) Normally Closed			

Legend

Grey	Vin
Black	black GND
White	Vout

Wire colours may vary. Always refer to the label on the switch.

Other switches are available upon request*

Unlike traditional switches Piezo switches have no moving mechanical parts making them extremely durable, withstanding millions of actuations and requiring little to no maintenance.



16mm Stainless Steel

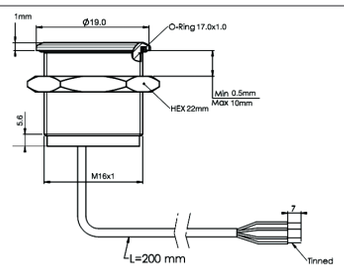
Non Illuminated

16MM Stainless Steel Non Illuminated



MPZ016

- Non Illuminated
- 20 cm lead
- Flathead or Guided profile



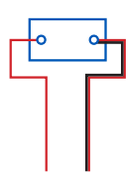
Specification	MPZ016
Type	Momentary
Material	Stainless Steel (Aluminium upon request)
Maximum Voltage	24V AC/DC
Switch Resistance “ON“	<1Ω
Switch Resistance “OFF“	5MΩ
Capacitance	100pF
Switching current (momentary)	1A Max
Switching current (prolonged)	300 mA
Switching pulse time (momentary)	up to 0.3 sec
Actuating force, typically	3-5 N
Life cycle	>10 Million

Environmental Specification

Sealing	IP68; IP69K
Operating temperature	-40°C to +85C°
Vibration resistance	5-500Hz/9.4m
Shock resistance	75g (g-force)
RoHS	Compliant

Circuit Specification

16MM Stainless Steel Non Illuminated



Switch voltage	24V AC/DC
Switch Current	1A Max
Power Supply	24V AC/DC

19mm Stainless Steel

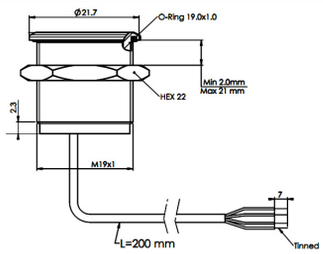
Illuminated and Non Illuminated

19MM Stainless Steel Illuminated

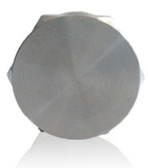


MPZI019

- Blue Illumination
- 20 cm lead
- Flathead

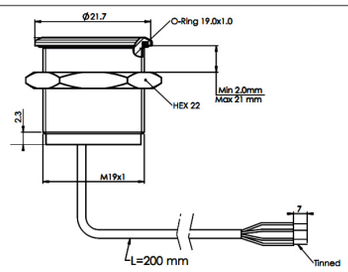


19MM Stainless Steel Non Illuminated



MPZ019

- Non Illumination
- 20 cm lead
- Flathead



Specification — MPZ019, MPZI019

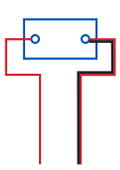
Type	Momentary
Material	Stainless Steel (Aluminium upon request)
Maximum Voltage	24V AC/DC
Switch Resistance “ON“	<1Ω
Switch Resistance “OFF“	5MΩ
Capacitance	100pF
Switching current (momentary)	1A Max
Switching current (prolonged)	300 mA
Switching pulse time (momentary)	up to 0.3 sec
LED Illumination	24V AC/DC
Actuating force, typically	3-5 N
Life cycle	>10 Million

Environmental Specification

Sealing	IP68; IP69K
Operating temperature	-40°C to +85C°
Vibration Resistances	5-500Hz/9.4m
Shock resistance	75g (g-force)
RoHS	Compliant

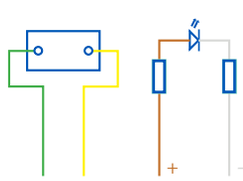
Circuit Specification

19MM Stainless Steel Non Illuminated



Switch voltage	24V AC/DC
Switch Current	1A Max
Power Supply	24V AC/DC

19MM Stainless Steel Illuminated

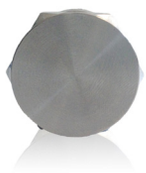


Switch voltage	24 V AC/DC
Switch Current	1A Max
Colour* Illuminated	24V AC/DC
Power Supply	24V AC/DC

22mm Stainless Steel

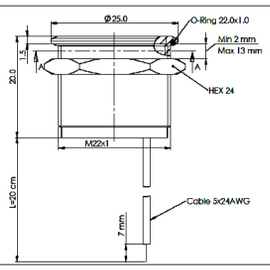
Illuminated and Non Illuminated

22MM Stainless Steel Non Illuminated



MPZ022

- Non Illumination
- 20 cm lead
- Flathead

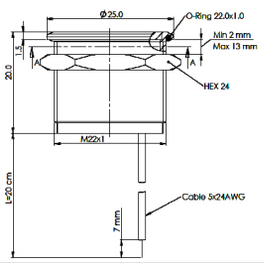


22MM Stainless Steel Illuminated



MPZI022

- Red or Green Illumination
- 1 colour
- 20 cm lead
- Flathead

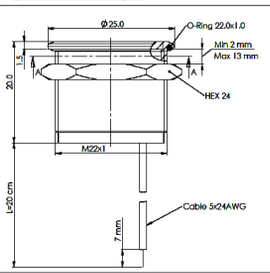


22MM Stainless Steel Illuminated



MPZI022

- Red and Green Illumination
- (2 colour)
- 20 cm lead
- Flathead



Specification — MPZ022, MPZI022

Type	Momentary
Material	Stainless Steel (Aluminium upon request)
Maximum Voltage	24V AC/DC
Switch Resistance “ON“	<1Ω
Switch Resistance “OFF“	5MΩ
Capacitance	100pF
Switching current (momentary)	1A Max
Switching current (prolonged)	300 mA
Switching pulse time (momentary)	up to 0.3 sec
LED Illumination	24V AC/DC
Actuating force, typically	3-5 N
Life cycle	>10 Million

Environmental Specification

Sealing	IP68; IP69K
Operating temperature	-40°C to +85C°
Vibration Resistances	5-500Hz/9.4m
Shock resistance	75g (g-force)
RoHS	Compliant

Circuit Specification

22MM Stainless Steel Non Illuminated



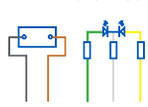
Switch Voltage	24 AC/DC
Switch Current	1A Max
Power Supply	24V AC/DC

22MM Stainless Steel Illuminated 1 colour



Switch Voltage	24V AC/DC
Switch Current	1A Max
Color* Illuminated	24V AC/DC
Power Supply	24 AC/DC

22MM Stainless Steel Illuminated 2 colour



Switch Voltage	24V AC/DC
Switch Current	1A Max
Color* Illuminated	24V AC/DC
Power Supply	24 AC/DC

22mm Stainless Steel Flathead

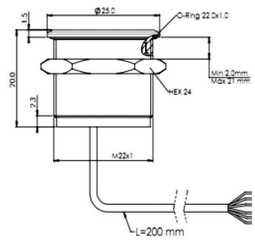
Illuminated

22MM Stainless Steel Illuminated



MPZI022/L

- Blue Illumination
- 1 colour
- 20 cm lead



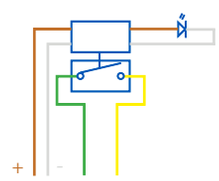
Specification	MPZI022/L
Type	Latching Toggle
Material	Stainless Steel (Aluminium upon request)
Power Supply	24V AC/DC
Switching voltage	48V AC peak/DC
Switch Resistance “ON“	<0.7Ω
Switch Resistance “OFF“	>1000MΩ
Capacitance	<90pF
Switching current	1A Max
LED Illumination	24V AC/DC
Actuating force, typically	3-5 N
Life cycle	>10 Million

Environmental specification

Sealing	IP68; IP69K
Operating temperature	-40°C to +85C°
Vibration Resistances	5-500Hz/9.4m
Shock resistance	75g (g-force)
RoHS	Compliant

Circuit Specification

22MM Stainless Steel Latching Toggle Illuminated



Power Supply	24V AC/DC
Switch Voltage	48V AC peak/ DC
Switch Current Max	1A Max
Colour* Illuminated	24V AC/DC

Part No System

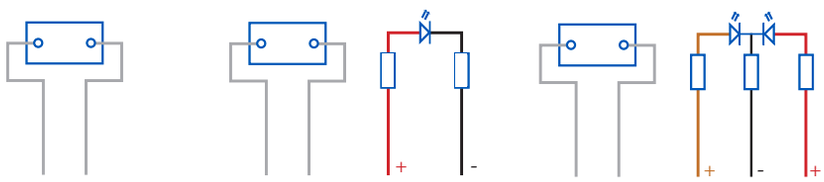
MPZ	/	016	/	X	/	XX	/	X	/	X

Series	Body Diameter	Profile	Colour	Led Voltage	Type
MPZ - Non Illuminated MPZI- Illuminated	016 = 16mm 019 = 19mm 022 = 22mm	F = Flat Head G = Guided Profile	BL = Blue RD = Red GN = Green D1 = Red and green	24v	L = Latching Toggle (No Suffix= Momentary)

Examples:

MPZ022/F = Non Illuminated Piezo, 22mm, Flathead
MPZI022/F/RD/24 = Illuminated Piezo, 22mm, Flathead, Red Illumination, 24 volt
MPZI022/G/BL/24/L = Illuminated Piezo, 22mm, Guided Profile, Blue Illumination, 24 volt, Latching Toggle

Circuit Specifications

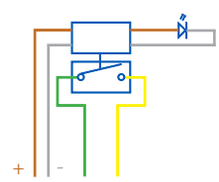


Non Illuminated | One colour Illuminated | Two colour Illuminated

Switch voltage 24V AC/DC
Switch Current 1A Max

+

Colour* Illuminated 24V AC/DC
Power Supply 24V AC/DC



One colour Illuminated (Latching Toggle)

Power Supply	24V AC/DC
Switch Voltage	48V AC peak/ DC
Switch Current	1A Max
Colour* Illuminated	24V AC/DC

Other switches are available upon request*

Miniature Stainless Steel Vandal Resistant

Prominent Button / Flush Profile

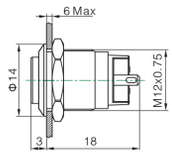
MAV0120

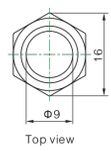


MAV0120/1 MAV0120/3

- Prominent and Flush Profile
- 12mm Diameter
- 2A, 36 dc
- IP67 (Front of Panel Only)

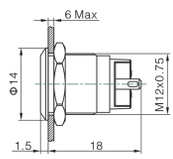
Prominent Profile





Top view

Flush Profile

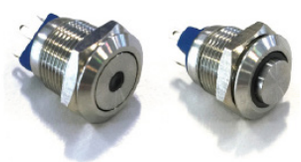


Specification	MAV0120/1	MAV0120/3
Terminations:	P - Solder Tabs	P - Solder Tabs
Switching:	S.P. Push to make	S.P. Push to make
Max Rating:	2A, 36Vdc	2A, 36Vdc
Contact Resistance:	≥50MΩ	≥50MΩ
Insulation Resistance:	≥1000MΩ	≥1000MΩ
Dielectric Strength:	1500V, AC 50Hz, 5 Secs	1500V, AC 50Hz, 5 Secs
Operating Temp Range:	*-25°C ~ +55°C	*-25°C ~ +55°C
Operations		
Mechanical:	500,000 (min)	500,000 (min)
Electrical:	200,000 (min)	200,000 (min)
Sealing (Front of Panel Only)	IP67	IP67
Shock Resistance	IK08	IK08
Rear Nut Fixing Torque:	0.6Nm	0.6Nm
Materials		
Mouldings:	PA	PA
Tags/Terminations:	Brass, Silver Plated	Brass, Silver Plated
Switch Body & Button:	Stainless Steel	Stainless Steel
Contacts:	Silver Alloy	Silver Alloy
Thread size:	M12x0.75	M12x0.75
RoHS	Compliant	Compliant

Miniature Stainless Steel Illuminated Vandal Resistant

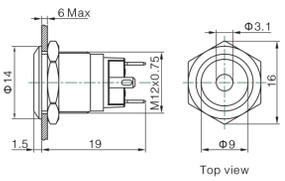
Illuminated traditional

MAV0120

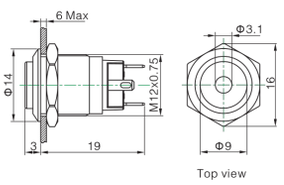


MAV0120

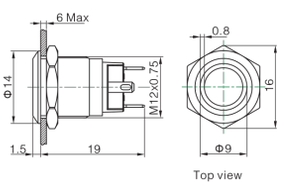
- Dot and Ring Illumination
- Prominent and Flush Profile
- 12mm Diameter
- 2A, 36 dc
- Bright daylight LEDs
- IP67 (Front of Panel Only)



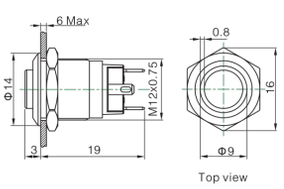
Top view



Top view



Top view



Top view

Specification — MAV0120

Terminations:	P - Solder Tabs
Switching:	S.P. Push to make
Max Rating:	2A, 36Vdc
Profile:	Prominent /3 Flush /1
Illumination Type	/1 Dot /2 Ring

LED Ratings					
Part No.	/RD	/GN	/BL	/OR	/AM
Colours	Red	Green	Blue	Orange	Yellow
Luminous Intensity					
Forward Voltage	1.8V	2.8V	2.8V	1.8V	1.8V
Forward Current					
Moulding Current	15mA	15mA	15mA	15mA	15mA

Illumination Voltage	/no suffix - No resistor fitted. An Appropriate resistor must be series connected by the user. Voltages as above /12 12V /24 24V
Contact Resistance:	≥50MΩ
Insulation Resistance:	≥1000MΩ
Dielectric Strength:	1500V, AC 50Hz, 5 Secs
Operating Temp. Range:	*-25°C ~ +55°C
Operations	
Mechanical:	500,000 (min)
Electrical:	200,000 (min)
Sealing (Front of Panel Only)	IP67
Shock Resistance	IK08
Rear Nut Fixing Torque:	0.6Nm
Materials	
Mouldings:	PA
Tags/Terminations:	Brass, Silver Plated
Switch Body & Button:	Stainless Steel
Contacts:	Silver Alloy
Thread size:	M12x0.75
RoHS	Compliant

Miniature Domed Metal Vandal Resistant

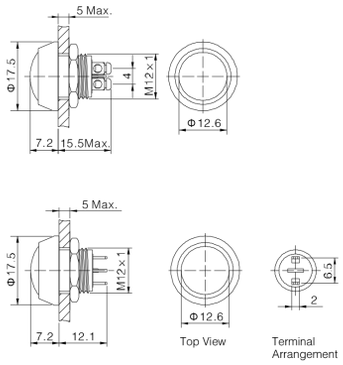
None Illuminated - Metal Dome

MMP0120



MMP0120

- Raised Domed Profile
- 12mm Diameter
- 2A, 36Vac
- IP65 or IP67 (Front of Panel Only)



Specification	MMP0120/S	MMP0120/N
Terminations:	P - Solder Tabs S - Screw Terminal	P - Solder Tabs S - Screw Terminal
Switching:	S.P. Push to make	S.P. Push to make
Max Rating:	2A, 36Vdc	2A, 36Vdc
Contact Resistance:	≥50MΩ	≥50MΩ
Insulation Resistance:	≥1000MΩ	≥1000MΩ
Dielectric Strength:	1500V, AC 50Hz, 5 Secs	1500V, AC 50Hz, 5 Secs
Operating Temp Range:	*-25°C ~ +55°C	*-25°C ~ +55°C
Operations		
Mechanical:	500,000 (min)	500,000 (min)
Electrical:	200,000 (min)	200,000 (min)
Sealing (Front of Panel Only)	IP65 or IP67	IP65 or IP67
Shock Resistance	IK08	IK08
Rear Nut Fixing Torque:	0.3Nm	0.3Nm
Materials		
Mouldings:	PBT	PBT
Tags/Terminations:	Brass, Gold Plated	Brass, Gold Plated
Switch Body & Button:	/SS Stainless Steel	/N - Nickel Plated Brass
Contacts:	Silver Alloy	Silver Alloy
Thread size:	M12x1	M12x1
RoHS	Compliant	Compliant

Miniature Domed PBT Pushbutton

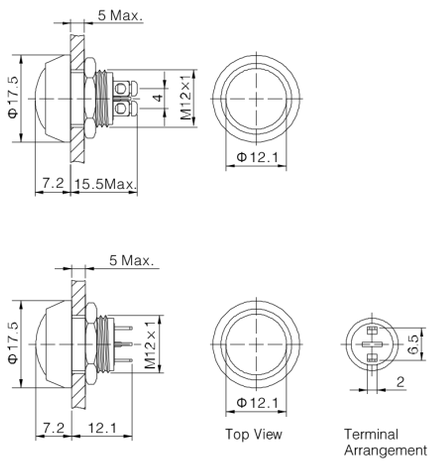
Non Illuminated - PBT

MMP0120/A



MMP0120/A

- Raised Domed Profile
- PBT Material
- 12mm Diameter
- 2A, 36Vac
- IP65 or IP67 (Front of Panel Only)



Specification	MMP0120/A
Terminations:	P - Solder Tabs S - Screw Terminal
Switching:	S.P. Push to make
Max Rating:	2A, 36Vdc
Contact Resistance:	≥50MΩ
Insulation Resistance:	≥1000MΩ
Dielectric Strength:	1500V, AC 50Hz, 5 Secs
Operating Temp Range:	*-25°C ~ +55°C
Operations	
Mechanical:	1,000,000 (min)
Electrical:	200,000 (min)
Sealing (Front of Panel Only)	IP65 or IP67
Shock Resistance	IK08
Rear Nut Fixing Torque:	0.3Nm
Materials	
Mouldings:	PBT
Tags/Terminations:	Brass, Gold Plated
Switch Body	/A Black Anodised
Switch Button:	/NB Nickel Plated Brass /RD RED PBT /GN GREEN PBT /BL BLUE PBT /BK BLACK PBT
Contacts:	Silver Alloy
Thread size:	M12x1
RoHS	Compliant

Miniature Domed Illuminated Pushbutton

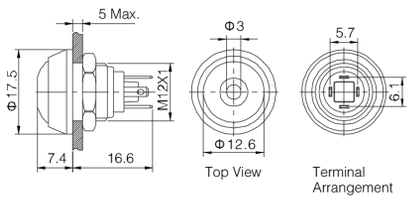
Stainless Steel and PBT

MMPI0120



MMPI0120

- Raised Domed Profile
- Dot Illumination
- Bright daylight LEDs
- 12mm Diameter
- 2A, 36Vac
- IP65 (Front of Panel Only)



Specification	MMPI0120				
Terminations:	P - Solder Tabs				
Switching:	S.P. Push to make				
Max Rating:	2A, 36Vdc				
LED Ratings					
Part No.	SS-RD	SS-GN	NN-RD	ABK-RD	AG-RD
Colours	Red	Green	Red	Red	Red
Luminous Intensity					
Forward Voltage	1.8V	2.8V	1.8V	1.8V	1.8V
Forward Current					
Moulding Current	15mA	15mA	15mA	15mA	15mA
Illumination Voltage	/no suffix - No resistor fitted. An Appropriate resistor must be series connected by the user. Voltages as above				
	/12				
Contact Resistance:	≥50MΩ				
Insulation Resistance:	≥1000MΩ				
Dielectric Strength:	1500V, AC 50Hz, 5 Secs				
Operating Temp. Range:	*-25°C ~ +55°C				
Operations					
Mechanical:	1,000,000 (min)				
Electrical:	200,000 (min)				
Sealing (Front of Panel Only)	IP65				
Shock Resistance	IK08				
Rear Nut Fixing Torque:	0.3Nm				
Materials					
Mouldings:	PBT				
Tags/Terminations:	Brass, Gold Plated				
Switch Body & Button:	Stainless Steel	Stainless Steel	Nickel Plated Brass	Black Anodized Body, Black PBT Button	Black Anodized Body, Green PBT Button
Contacts:	Silver Alloy				
Thread size:	M12x1				
RoHS	Compliant				

12mm Miniature Vandal Resistant Stainless Steel Switch

MAV0120 / X / X / X / X / X

Series	Button	Switching Type	Type of Illumination	Illumination Colour	Lamp Voltage
MAV0120	1 = Flush 3 = Prominent	D = Momentary	Blank = None 1 = Dot 2 = Ring	Blank = None RD = RED GN = GREEN BL = BLUE AM = AMBER/YELLOW OR = ORANGE	Blank = None 012 = 12V 024 = 24V

Examples:

MAV0120/3D = 12mm Prominent Actuator, Momentary, Non Illuminated
MAV0120/3D1BL024 = 12mm Prominent Actuator, Momentary, Blue Dot Illuminated, 24V
MAV0120/3D2GN012 = 12mm Prominent Actuator, Momentary, Green Ring Illuminated, 12V

12mm Miniature Metal/Plastic Domed Pushbutton Switch

MMPXXX / X / X / X / X / X / X

Series	Body Material	Button Material & Colour	Sealing	Illumination Colour	Lamp Voltage	Termination
MMP0120 = Non Illuminated MMPI0120 = Illuminated	S = Stainless Steel N = Nickel Plated Brass A = Black Anodized	SS = Stainless Steel NB = Nickel Plated Brass RD = RED PBT GN = GREEN PBT BL = BLUE PBT BK = BLACK PBT	Blank = IP65 67 = IP67 IP67 (non-illuminated only)	Blank = None RD = RED GN = GREEN BL = BLUE AM = AMBER/YELLOW OR = ORANGE	Blank = None 012 = 12V 024 = 24V Other voltages require external resistor	S = Screw Terminals P= Solder Terminals (2.0mm x 0.5mm)

Examples:

MMP0120/SSSS = 12mm, Non Illuminated, All Stainless Steel, IP65, Screw Terminals
MMP0120/ARD67/S = 12mm, Non Illuminated, Black anodized body, Red PBT button, IP67, screw terminals
MMPI0120/NNBRD012P = 12mm, Illuminated , All Nickel Plated Brass with 12V Red Dot illumination, IP65, Plug Terminals

Bulgin's range of high quality rocker switches includes a huge choice of single and double contact options available in various sizes, colours, terminations, actuator types and ratings up to 20A, 277Vac, allowing for virtually any design configuration.

- Available types: Ultra-thin, Miniature, Twin unit, Miniature round and Standard
- Rating from 10A, 250V ac up to 20A, 277V ac
- Single & double contact variants available
- Push-on, solder & PCB terminals
- Illuminated and non-illuminated options
- High in-rush (ON-OFF types)
- Matching Indicators
- Splash resistant options
- Choice of bezel styles and sizes, panel cut-outs and actuators
- Choice of switching circuits including 3 position



8800 Thinline Rocker Switches

10A 250Vac



Key Features

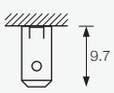
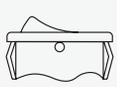
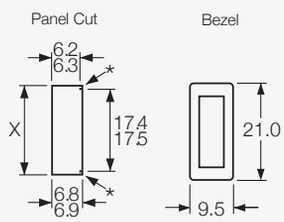
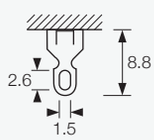
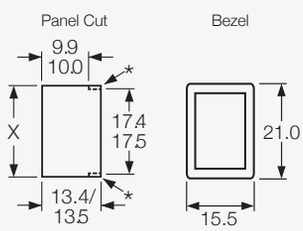
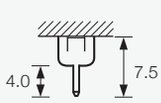
- Ultra thin rocker switch
- Ratings up to 15A, 250Vac
- Single and twin gang
- Panel cut out:
  Single 19.3 x 6.8
  Twin 19.3 x 13.4

Approvals and specifications

6(2) A 250 V AC 5E4 T100
10(6) A 250 V AC 1E4 T100
Inrush 10/50 A 250 V AC 1E4 T100

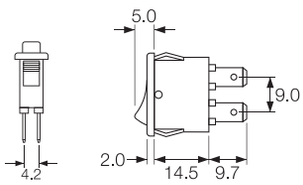
UL 15A 250Vac (Twin unit is 10A 250Vac)
UL 125Vac 1/2hp
UL 100°C, CSA file LR10990

3mm contact gap.

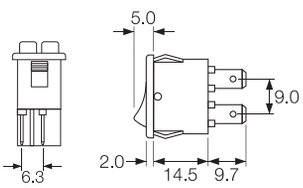
Terminal	Function	Rocker	Body	Body Colour	Rocker Colour
H  	 Switches are ON when pressed over terminal 1 **8800**  ON - OFF Single contact		A. Single contact  *Optional profile for orientation	**B** Black **R** Red **W** White	**B** Black **R** Red **W** White
T  	 Switches are ON when pressed over terminal 1 or 3		B. Single contact - Twin  *Optional profile for orientation Panel thickness / Dim X 0.75-1.2 / 19.1/19.2 1.25-1.99 / 19.3/19.4 2.00-3.00 / 19.7/19.8 Cut-outs must be punched in the direction of insertion		
X  	**8800**  ON - OFF Twin contact				

Dimensions

8800VA (H terminals shown)



8800V/8800VA (H terminals shown)



Legend

—
Blank

132

Legend Colour

—
Blank

B
Black

W
White

Options

Finish
Matt finish only.

Colour
Call sales for custom colours.
A full range is available for large orders.

Legend printing
Select from the examples or call sales for custom legends.

Examples



X8800VA



X8800VA
T8800VA - - -



X8800VA
T8800VA - - -



H8800V/H8800VA
T8800V/T8800VA



H8800V/H8800VA
T8800V/T8800VA

8500 Rocker Switches - Miniature

15A 250Vac Single & Double Contact



Key Features

- Miniature rocker switch
- Ratings up to 15A, 250Vac
- Single & double contact in same body size
- Illuminated & non-illuminated
- Matching indicators
- Industry standard panel cut-out
- Rotary and push button actuator options
- Panel cut out: 19.3 x 12.9

Approvals and specifications

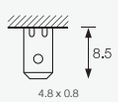
6(4) A, 250 VAC, 5E4, T125
10(6) A, 250 VAC, T125
10(6) A, 250 VAC, T100

UL 15A Non Ind 250Vac, 14A Ind 250Vac, 10A 277Vac
UL 250Vac 1/2hp, 125Vac 1/4hp
UL 105°C, (non lit)

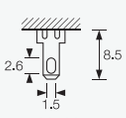
3mm contact gap.

Terminal

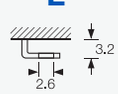
H



K

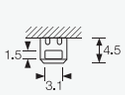


L

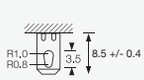


Right angle version of K terminal available on 8500 only

R



T



Solder

Function



ON OFF Switches are ON when pressed over terminal 1

8500



ON - OFF
Single contact
(Uses terminals 1a & 2a)

8503



ON (lit) - OFF
Single contact

8550



ON - OFF
Double contact

8553



ON (lit) - OFF
Double contact

8580
Available with H terminals only

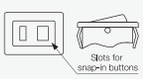


Indicator

UL/CSA E63363

Rocker

H Slotted for custom caps



R Semi-rotary (not lit)



D Paddle lever (not lit)



V Curved (not lit)



V Curved (lit)



X Two colour (not lit)



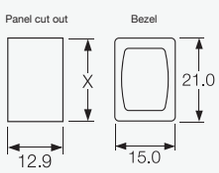
A Softline lens



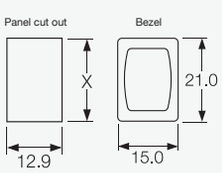
P Push button operation (8500 only)
See drawing opposite

Body

B Standard body with terminal barrier



BC Body without terminal barrier



Dimensions for snap-in fixing

Panel thickness	Dim X
0.75-1.25	19.1/19.2
1.25-2.00	19.3/19.4
2.00-3.00	19.7/19.8

Cut-outs must be punched in the direction of insertion

Body Colour

B
Black

R
Red

W
White

Rocker Colour

Un-Lit

B
Black

R
Red

W
White

Lit

A
Amber

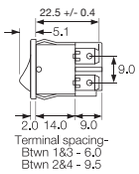
G
Green

C
Clear

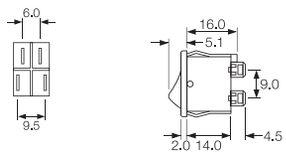
R
Red

Dimensions

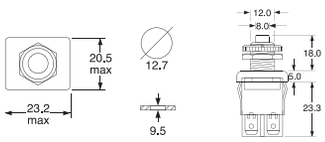
"B" body with barrier for H, T and K terminals



"BC" body w/o barrier primarily for L or R terminals (can be used for all terminals)



'PO' Actuator and body - push button function (8500 only)



Insert Colour

X
Rocker Only

R
Red

W
White

—
Leave blank for other Rocker types

Lamp Voltage

—
Blank

2
125V Neon

3
250V Neon

7
12V Filament

8
24V Filament

Legend

—
Blank

076

Legend Colour

—
Blank

B
Black

W
White

Options

Finish
Matt finish only.

Colour
Call sales for custom colours. A full range is available for large orders.

Legend printing
Select from the examples or call sales for custom legends.

Lamp voltage
Call sales for details of available voltages.

Protective cover L167
Snaps on to bodies with V or X style rockers and A lens. This reduces panel thickness by 0.8mm.



Examples



H8500VB - - -
T8500VB - - -



H8550VB - - -
T8550VB - - -



H8550HB - - -
T8550HB - - -



H8550XB - - -
T8550XB - - -



H8550RB Semi-rotary A splash proofing option



H8500PO - - -
Pushbutton option



H8553VB - - -
T8553VB - - -



H8580AB - - -

8600 Rocker Switches - Miniature

10A 250Vac Single & Double Contact



Key Features

- Miniature rocker switch
- Ratings up to 16A, 250Vac
- Single & double Contact
- ON/OFF, C/O, biased and centre off switching
- Push on, solder and PCB terminals
- Illuminated and non illuminated
- Matching indicators
- Panel cut out
  single: 19.3 x 12.9
  double: 19.3 x 21.9

Approvals and specifications

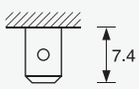
10(4)A 250Vac T90 (unless noted below)

UL See ratings below
UL 65°C, file E45221

3mm contact gap except where marked µ.

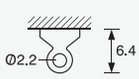
Terminal

H



4.8 x 0.8

T



3.5 x 0.8
Solder

X



PCB
0.8Sq

Double Contact switches with "X" terminals are supplied without terminal barriers

Function

Approvals & ratings vary with function



ON OFF Switches are ON when pressed over terminal 3



8600

10(4)A
16A 250V, 10A 277V
1/2HP 277V,1/4HP 125V
ON - OFF

8650

10(4)A
10A 277V
1/2HP 277V,1/4HP 125V
ON - OFF

8601

6(1)A
16A 250V, 6A 277V
ON - OFF
(momentary ON)

8651

6(1)A
6A 277V
ON - OFF
(momentary ON)

8602

10A
6A 277V
ON - OFF
(momentary OFF)

8652

10(4)A
6A 277V
ON - OFF
(momentary OFF)

N/A

ON - OFF
Lit

8653

10(4)A
6A 277V
ON - OFF
Lit

8610

6(1)A
10A 277V
1/2HP 277V,1/4HP 125V
ON - ON

8660

6(1)A
10A 277V
1/2HP 277V,1/4HP 125V
ON - ON

8611

6A 277V
ON - ON
(momentary 1 side)

8661

6A 277V
ON - ON
(momentary 1 side)

* 8611 and 8661 not covered by ENEC

8620 µ

ON - OFF - ON

8670 µ

ON - OFF - ON

8630

6(1)A
UL E63363
CSA LR29381

Indicators

N/A

Rocker

V Curved



V Curved (lit)



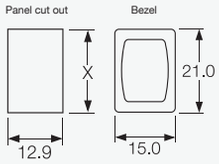
F Flat Indicator only (Single contact)



Body

B Single Contact

Panel cut out / Bezel



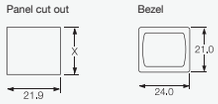
Single Contact dimensions for snap-in fixing

Panel thickness	Dim X
0.75-1.25	19.1/19.2
1.25-1.99	19.3/19.4
2.00-3.00	19.7/19.8

B (Double Contact) with terminal barrier

BC (Double Contact) w/o terminal barrier

Panel cut out / Bezel



Double Contact dimensions for snap-in fixing

Panel thickness	Dim X
0.75-1.24	19.1/19.2
1.25-1.99	19.3/19.4
2.00-3.00	19.7/19.8

Cut-outs must be punched in the direction of insertion

Body Colour

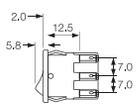
B Black

R Red

W White

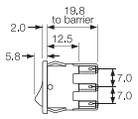
Dimensions

Single contact



Terminals shown
are "H" 4.8 push on type

Double contact



Terminal spacing
10.2 between contact centres

Rocker Colour

Un-Lit

B
Black

R
Red

W
White

Lit

A
Amber

G
Green

C
Clear

R
Red

Lamp Voltage

—
Blank

2
125V Neon

3
250V Neon

7
12V Filament

8
24V Filament

Legend

—
Blank

076

Legend Colour

—
Blank

B
Black

W
White

Options

Finish
Matt finish only.

Colour
Call sales for custom colours.
A full range is available for large orders.

Legend printing
Select from the examples or call sales for custom legend.

Lamp voltage
Call sales for details of available voltages.

Blanking plate A8634FB
Dummy unit to fill unused panel holes.
Single contact size only.

Protective covers
L167 for SP
L180 for DP
Snap on to bodies with V rocker or F lens. This reduces panel thickness by 2.2mm.



Single Contact options
Most switches shown can have single contact switching in double contact bodies.

Examples



H8600VB - - -
T8600VB - - -



H8600VB - - -
T8600VB - - -



H8630FB - - -
T8630FB - - -



H8650VB - - -
T8650VB - - -



H8660VB - - -
T8660VB - - -



H8653VB - - -
T8653VB - - -

8620 & 8670 Rocker Switches

3 Positions - 10A 250Vac









Key Features

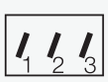
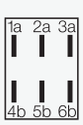
- 3 position miniature rocker switch
- Ratings up to 15A, 250Vac
- Single & double Contact
- Centre off switching
- Push on, solder and PCB terminals
- Matching indicators
- Panel cut out: single: 19.3 x 12.9 double: 19.3 x 21.9

Approvals and specifications

10(4)A 250Vac T90

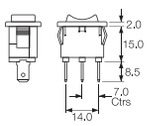
UL 15A 277Vac (Single Contact)
UL 250Vac 1/2hp (Single Contact)
UL 125Vac 1/4hp (Single Contact)
UL 10A 277Vac (Double Contact)
UL 277Vac 1/2hp (Single & Double Contact)
UL 90°C

µ contact gap.

Terminal	Function	Rocker	Body	Body Colour	Rocker Colour
H 8.5 4.8 x 0.8	 **8620** ON - OFF - ON Single Contact	**V** Curved	**B** Single Contact X, 12.9, 21.0, 15.0 Panel thickness / Dim X 0.75-1.24 / 19.1/19.2 1.25-1.99 / 19.3/19.4 2.00-3.00 / 19.7/19.8	**B** Black	Lit (DP)
				R Red	**A** Amber
T Ø2.15, 6.4 Solder		**H** Slotted for actuator (8620 only)			**C** Clear
				W White	**G** Green
					R Red
X 4.0, 8.0 PCB 0.8sq Double Contact switches with X terminals are supplied without terminal barriers	**8670** ON - OFF - ON Double Contact		**B** Single Contact - Twin X, 21.9, 21.0, 24.0 Panel thickness / Dim X 0.75-1.24 / 19.1/19.2 1.25-1.99 / 19.3/19.4 2.00-3.00 / 19.7/19.8 Cut-outs must be punched in the direction of insertion		Lit (DP)
					B Black
					R Red
					W White

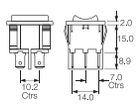
Dimensions

Single Contact



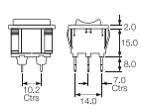
Terminals shown
are "H" 4.8 push on type

Double Contact



Terminal spacing
10.2 between Contact centres

Double Contact



Terminal spacing
10.2 between Contact centres

Lamp Voltage

—
Blank

2
125V Neon

3
250V Neon

7
12V Filament

8
24V Filament

Legend

—
Blank

076

Legend Colour

—
Blank

B
Black

W
White

Options

Finish
Matt finish only.

Colour
Call sales for custom colours.
A full range is available for large orders.

Legend printing
Select from the examples or call sales for custom legend.

Lamp voltage
Call sales for details of available voltages.

Blanking plate A8634FB
Dummy unit to fill unused panel holes.
Single Contact size only.

Protective covers
L167 for SP
L180 for DP
Snap on to bodies with V rocker or F lens. This reduces panel thickness by 2.2mm.



Single Contact options
Most switches shown can have single Contact switching in double Contact bodies.

1250 Rocker Switches

10A 250Vac



C1250AP ---



C1250AN ---



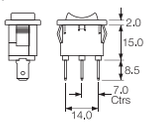
Key Features

- Standard rocker switch
- Double Contact in single Contact body
- Snap in or sub panel mount
- Integral terminal barrier
- Push on or PCB terminals
- Panel cut out:
  27.2 x 12.4 (snap in)
  26.3 x 12.4 (sub panel mount)

Terminal	Function	Rocker	Body	Body Colour	Rocker Colour
C 9.0 6.3 x 0.8	2a — 2 1a — 1 On when pressed over terminal 1 **1250** 2a — 2 1a — 1 ON - OFF Double Contact Contacts are 9.0mm between centres.	**A** Curved Shown in N body	**N** Panel cut-out: Sub-panel 26.1/26.2 × 12.4/12.5; Facia 23.8 nom × 13.1 nom, R3.5 Bezel: 13.0 × 29.5 Panel thickness / Dim X 0.75-1.24 / 26.1/26.2 1.25-1.99 / 26.3/26.4 2.00-3.00 / 26.7/26.8	**B** Black	**B** Black
				W White	**W** White
X 5.2 9.0 PCB 0.8sq (N body only)	1a — 1 On when pressed over terminal 1 **1250SP** 1a — 1 ON - OFF Single Contact	Shown in P body	**P** Panel cut out: 27.2/27.3 × 12.4/12.5 Bezel: 29.5 × 15.0 Panel thickness 0.75-3.00 Cut-outs must be punched in the direction of insertion		**G** Grey

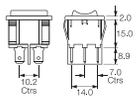
Dimensions

1250AN
(C terminals shown)



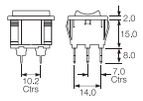
Terminals shown
are "H" 4.8 push on type

1250AN
(X terminals shown)



Terminal spacing
10.2 between Contact centres

1250AP
(C terminals shown)



Terminal spacing
10.2 between Contact centres

Approvals and specifications

10(6)A 250Vac T100
6A 400Vac T100
1A 30Vdc

UL 10A 250Vac
UL 16A 250Vac Resistive
UL 125Vac 1/2hp
UL 1A 30Vdc
UL 100°C

3mm contact gap

Legend

—
Blank

085

Legend Colour

—
Blank

B
Black

W
White

Options

Finish
Matt finish only.

Colour
Call sales for custom colours.
A full range is available for large orders.

Legend printing
Select from the examples or call sales for custom legend.

6000 SP Splash Resistant Rocker Switches

16A 250Vac



Key Features

- Ratings up to 20A, 277Vac
- Positive switch action
- Distinctive styling
- Illuminated & nonilluminated
- Single Contact
- Panel cut out: 30.1 x 11.1mm

Approvals and specifications

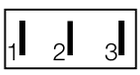
European 16(4)A 250Vac T125, 10A 400Vac T125

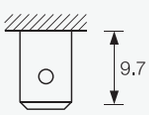
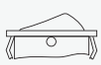
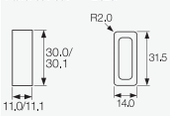
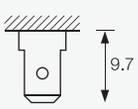
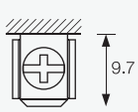
UL = 20A 277Vac, 1 1/2HP 250Vac 1HP 125Vac
cUL = 20A 277Vac, 1HP 125Vac, 1/2HP 125Vac

3mm contact gap with Positive Break switching.
Call factory for IP details.

Vary with Function

Approvals & ratings vary with function
ON OFF Switches - ON when pressed over terminals 3.



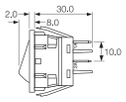
Terminal	Function	Rocker	Body	Body Colour	Rocker Colour	Lamp Voltage
C  6.3 x 0.8	**6000**  ON - OFF	**A** Softline Matt 	**L** Panel cut-out ** Bezel  Cut-outs must be punched in the direction of insertion	**B** Black	Lit (DP) **A** Amber	— Blank
H  4.8 x 0.8	**6001**  ON - OFF (momentary ON)			**W** White	**C** Clear	**2** 125V Neon
S  Screw & Clamp N/A for assemblies with 3 terminals	**6002**  ON - OFF (momentary OFF)	**A** Softline Matt 			**G** Green	**3** 250V Neon
	6003  ON - OFF Lit				**R** Red	**5** 12Vdc LED (P Rocker)
	6008  ON - OFF Lit (Unswitched neutral)	**P** Lit window Matt 			Lit (DP) **B** Black	**6** 24Vdc LED (P Rocker)
	6009  ON - OFF (momentary ON) Lit (Unswitched neutral)				**R** Red	**7** 12V Filament
	6010  ON - ON				**W** White	**8** 24Vdc Filament
	6011  ON - ON (momentary 1 side)					

Integral Splash Resistance



Current carrying parts are protected from moisture.
Droplets which may enter the switch are channelled out through ports in the switch body.
For IP65 see options below

Dimensions



Panel thickness
L 0.75 to 2.5mm

Legend

—
Blank

1223

Legend Colour

—
Blank

B
Black

W
White

Options

G74
Protective Cover

Finish
Matt is standard.

Colour
Call sales for custom colours.
A full range is available for large orders.

Legend printing
Select from the examples or call sales for custom legends.

Lamp voltage
Call sales for details.

Protective cover
A snap on cover is available (add G after body code), this reduces panel thickness by 2mm.



Panel sealing washer W46 is available, this reduces panel thickness by 1.2mm.

Covers are not suitable for momentary types. For all options call the factory

Examples


C6000AL - - -


C6000AL - - -


C6010AL - - -


C6003AL - - -


C6003PL - - -


C6030AL - - -

6050 DP Splash Resistant Switches

& Twin Switches - 16A 250Vac



Key Features

- Ratings up to 20A, 277V ac
- Positive switch action
- Distinctive styling
- Illuminated & non-illuminated
- Double Contact
- DC LED Illumination Avaliable
- Panel cut out: 30.1 x 22.2mm

Approvals and specifications

European 16(4)A 250Vac T125, 10A 400Vac T125

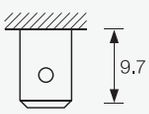
UL (except 6054 & 6055 Swtiches) 20A 277Vac, 250Vac 11/2hp, 125Vac 1hp

UL 100°C

3mm contact gap with Positive Break switching.

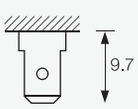
Terminal

C



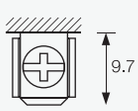
6.3 x 0.8

H



4.8 x 0.8

S



Screw & Clamp
N/A for assemblies with 3 terminals

Function

6050

ON - OFF

6051

ON - OFF
(momentary ON)

6052

ON - OFF
(momentary OFF)

6053

ON - OFF Lit

6054

ON - OFF
(momentary ON)
Lit

6055

ON - OFF (Single Contact)
(momentary ON) Lit

6056

ON - OFF (Single Contact)
Isolated light

6057

ON - OFF
Isolated light

6058

ON - OFF
(Single Contact) Lit

6059

ON - OFF (Single Contact)
(momentary ON)
Isolated light

6060

ON - ON

6061

ON - ON
(momentary 1 side)

6062

2 Circuit ON - ON
(In house tests only)

6066

ON - ON (Single Contact)
Isolated light

6067

ON - ON
Lit

6068

ON - ON 1 Contact
ON - OFF Lit 1 Contact

6090

ON - OFF 1 Contact
ON - OFF Lit 1 Contact

6091

ON - OFF
(momentary ON) Lit

6092

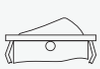
ON - OFF 1 Contact
ON - ON 1 Contact Lit

Circuits are Double Contact unless described otherwise

Rocker

A

Softline Matt



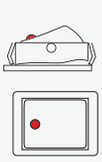
A

Softline Matt



P

Lit window Matt



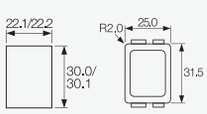
Lit window

Body

L

Double Contact

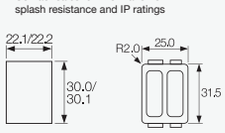
Panel cut-out ** Bezel



L

Twin units

Contact sales for information on splash resistance and IP ratings



Body Colour

Lit (DP)

A
Amber

C
Clear

G
Green

R
Red

Un-Lit (DP)

B
Black

R
Red

W
White

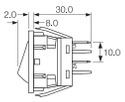
Integral Splash Resistance



Current carrying parts are protected from moisture. Droplets which may enter the switch are channelled out through ports in the switch body.

For IP65 see options below

Dimensions

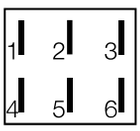


Panel thickness
L 0.75 to 2.5mm

Terminal spacing - Contacts 10.5 between centres

Vary with Function

Approvals & ratings vary with function
ON OFF Switches - ON when pressed over terminals 3 & 6.



Rocker Colour

B
Black

R
Red

W
White

Lamp Voltage

—
Blank

2
125V Neon

3
250V Neon

5
12Vdc LED (P Rocker)

6
24Vdc LED (P Rocker)

7
12V Filament

8
24Vdc Filament

Legend

—
Blank

1223

Legend Colour

—
Blank

B
Black

W
White

Options

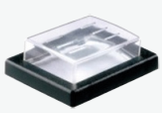
G74
Protective Cover

Finish
Matt is standard.

Colour
Call sales for custom colours.
A full range is available for large orders.

Legend printing
Select from the examples or call sales for custom legends.

Protective cover
The 6050 series is a water through design. For a higher level of sealing, a snap on cover is available (add G after body code).
This reduces panel thickness by 1mm.



Panel sealing washer W42 is available. This reduces panel thickness by 1.00mm. Covers are not suitable for momentary types.

IP Ratings
Call the sales for details.

Terminal Link P1067
connects the Contacts of a double Contact switch or twin unit.

Mounting orientation may affect IP rating.

Examples


C6050AL - - -


C6053AL - - -


C6053PL - - -


C6000A/C6000AL


C6003P/C6003PL


C6003P/C6030AL

1500 Standard & 1300 High Inrush Switches

150A to EN61058-1 and 16A 250Vac



Key Features

- Standard rocker switch
- Non-illuminated
- 150A inrush
- Choice of switching circuits including 3 position
- Choice of bezel styles
- Choice of panel cut outs
- Matching indicator
- Single Contact
- Splash resistant option
- DC LED Illumination Avaliable for “P“ Rocker
- Panel cut out ‘A’ style: 27.3 x 12.3mm

Approvals and specifications

1500 Series 16(4)A 250Vac T125 **(European Approvals Pending)**

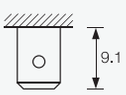
UL 16A Non Ind 250Vac, (2 posn) 250Vac 1hp, 125Vac 1/2hp, (3 posn) 250Vac 1/2hp, 125Vac 1/4hp
1330 36Vdc 14A
1350 72 Vdc 7A
1500 & 1510 14 Vdc 10A
UL 85°C

In house test:
10A 24Vdc—Indicative rating only

1300 series 16(4)A 250Vac T125 1E4 (10,000 Ops.)

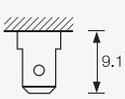
Terminal

C



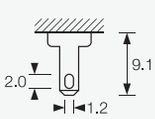
6.3 x 0.8

H



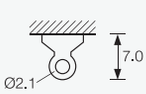
4.8 x 0.8*

K



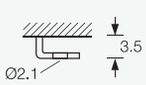
2.8 x 0.8*

T



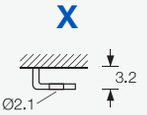
Solder

U



Right angle “T” solder terminal

X



PCB 0.8Sq*
*N/A for 1300 series

Function

Standard 1500
ON - OFF

1501
HP rating N/A
ON - OFF (momentary ON)

1502
HP rating N/A
ON - OFF (momentary OFF)

1510 µ
HP rating N/A
ON - ON

1511 µ
HP rating N/A
ON - ON (momentary 1 side)

1520 µ
125V & 250V 1/2 HP
H terminal rated T100 only
ON - OFF - ON

1521 µ
HP rating N/A
H terminal rated T100 only
ON - OFF - ON (momentary 1 side)

1522 µ
HP rating N/A
H terminal rated T100 only
ON - OFF - ON (momentary 2 sides)

0430 (Indicator)
HP rating N/A
H terminal rated T100 only

1484
In-house tested to 10(3)A 250Vac
3 position selective

1487
In-house tested to 10(3)A 250Vac
3 position selective

High Inrush 1300
ON - OFF

Rocker

A Softline Matt

B Splash resistant (with Arcshield) Matt

H Slotted (for custom Adaptors) not momentary

V Curved Matt or gloss

W Splash resistant (with Arcshield) Matt

X Two colour Matt ON - OFF only (not momentary)

F Flat lens Gloss (0430 only)

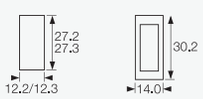
A Softline lens Matt (0430 only) as F but with raised profile

Body

Panel cut-out Bezel

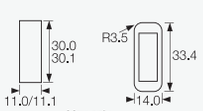
Cut-outs must be punched in the direction of insertion

A



Gloss or Matt

B



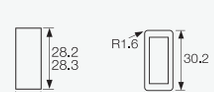
Matt only

L



Matt only

Q



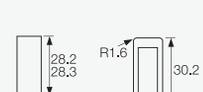
Gloss or matt

R



Matt only

T



Matt only

Finish

M Matt

G Gloss

Applies to both Rocker & Body

Body Colour

B Black

R Red

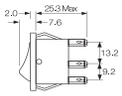
W White

150A Inrush to EN61058-1
UL 20A 250Vac 1hp, 125Vac 1/2hp
UL 85°C

In house test:
20A 24Vdc—Indicative rating only

3mm contact gap except if marked µ.

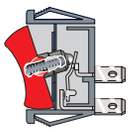
Dimensions



Panel thickness
A,Q 0.75 to 3.3mm
L,B,T 0.75 to 2.5mm
R 0.75 to 3.0mm

Splash Resistance

1500 W and B splash resistant options
Feather edge seals and a close fitting collar protect current carrying parts from moisture.
B option has Hytrel collar/seals for enhanced protection.



1300 High inrush, positive break switching
The 1300 series mechanism ensures contact welds formed at switch-on are positively separated by the plunger tube acting directly on the step in the moving contact.

Rocker Colour

Un-Lit

B Black

R Red

W White

Lit

A Amber

C Clear

G Green

R Red

Lamp Voltage

— Blank

2 125V Neon

3 250V Neon

7 12V Filament

8 24Vdc Filament

Insert Colour

— Blank

R Red

W White

Legend

— Blank

602A

Legend Colour

— Blank

B Black

W White

Options

Finish
Matt is standard.

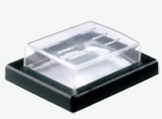
Colour
Call sales for custom colours.
A full range is available for large orders.

Legend printing
Select from the examples or call sales for custom legends.

Lamp voltage
Call sales for details.

Blanking plates A0434 - -
Dummy units to fill unused panel holes.

Protective cover
Snaps on to A, L, Q or T bodies (add G after body code in cat no.), this reduces panel thickness by 1mm.



Panel sealing washer W46 is available for the same body sizes, this reduces panel thickness by a further 0.8mm.
Covers are not suitable for momentary types.

For all options call sales.

Examples



C1500AR - - -
T1500AR - - -



C1500AL - - -
T1500AL - - -



C1500XL - - -
T1500XL - - -



C1510AL - - -
T1510AL - - -



C1520AL - - -
T1520AL - - -



C0430AL - - -
T0430AL - - -

5500 Lit Rocker Series

10A 250Vac



Key Features

- Standard rocker switch
- Illuminated
- Choice of switching circuits
- Choice of bezel styles
- Choice of panel cut outs
- Matching indicator
- Single Contact
- Splash resistant option
- Panel cut out 'A' style:

Approvals and specifications

6(4) A, 250 V ac, 50/60 Hz, IP40, 1E4, T85/55, micro disconnection
12 A, 250 V ac, 50/60 Hz, IP40, 1E4, T125/55, micro disconnection

UL 15A 250Vac, CSA 16A Non Ind 250Vac
UL 250Vac 1hp, 125Vac 1/2hp
UL 85°C

µ contact gap.

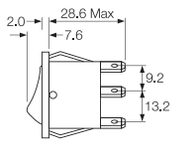
For Twin units repeat the order details for both the left and right sides.

Terminal	Function	Rocker	Body	Body Colour	Rocker Colour
C 9.1 6.3 x 0.8 **H** 9.1 4.8 x 0.8 **T** 7.0 Ø2.1 Solder	Approvals & ratings vary with function ON OFF Switches - ON when pressed over terminal 3 **5500 µ** ON - OFF Single Contact **5503 µ** ON - OFF Lit Switched neutral **5508 µ** ON - OFF Lit Unswitched neutral	**A** Softline (Matt only) **P** Lit window (Matt only)	**A** Panel Cut - outs: 27.2 / 27.3, 12.2/12.3; Bezel: 30.2, 14.0 **B**: 30.0 / 30.1, 11.0/11.1; R3.5, 33, 14.0 **L**: 30.0 / 30.1, 11.0/11.1; R1.0, 31.9, 14.0 **Q**: 28.2 / 28.3, 11.5/11.6; R1.6, 30.2, 14.0 **R**: 28.5 / 28.6, 14.0/14.1; 31.5, 17.0 **T**: 28.2 / 28.3, 11.5/11.6; R1.6, 30.2, 14.0	**B** Black **W** White	Un-Lit **B** Black **R** Red **W** White Lit **A** Amber **C** Clear **G** Green **R** Red

Dimensions

Panel thickness

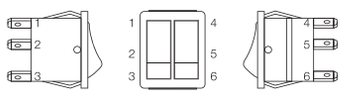
A,Q	0.75 to 3.3mm
L,B,T	0.75 to 2.5mm
R	0.75 to 3.0mm



Terminal spacing -
Contacts 10.8 between centres (twin units)

Twin units

Two single switches or a switch and an indicator light can be assembled side by side in one double Contact body.
For 5500 range panel cut-out details (L, B and T) call sales.



For twin units the first set of order format details refer to the left hand unit, when looking at the front of the assembly. (This has terminal numbers 1, 2 & 3)

Lamp Voltage

— Blank

2 125V Neon

3 250V Neon

5 12Vdc LED (P Rocker) IF = 20-30mA

6 24Vdc LED (P Rocker) IF = 20-30mA

7 12V Filament

8 24Vdc Filament

Legend

— Blank

602A

Legend Colour

— Blank

B Black

W White

Options

Finish
Matt is standard.

Colour
Call factory for custom colours.
A full range is available for large orders.

Legend printing
Select from the examples or call factory for custom legends.

Lamp voltage
Call factory for details.

Blanking plate A0434 - - (SP) A0494 - - (DP)
Dummy units to fill unused panel holes.

Protective cover
Snaps on to A, L, Q or T bodies (add G after body in cat no.), this reduces panel thickness by 1.00mm.



Panel sealing washers W46 (Single Contact) and W42 (Double Contact) are available for these body types, this reduces panel thickness by 2mm.

For all options call the factory.

Examples


C5503AL - - -


C5500AL - - -


C5503PL - - -


C5503A/C5430AL


C5503A/C5503AL


C5503P/C5503PL

1500 Twin Units Switches and Indicators

16A 250Vac



Key Features

- Twin unit rocker switch
- Choice of switching circuits including 3 position
- Push-on, solder and PCB terminals
- Choice of bezel styles
- Choice of panel cut outs
- Matching indicator
- Single Contact switches
- Splash resistant option
- Panel cut out 'A' style: 27.2 x 22.3mm

Approvals and Specifications

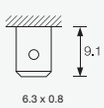
16(4)A 250Vac T125 **(Pending)**

UL 16A 250Vac
UL (2 posn) 250Vac 1hp, 125Vac 1/2hp, (3 posn) 250 Vac
1/2hp, 125Vac 1/4hp
UL 85°C

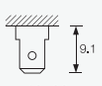
For versions with High Inrush or for 50,000 operations,
3mm contact gap except where marked µ.

Terminal

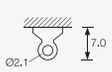
C



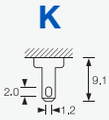
H



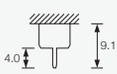
T



K



X



Function

Approvals & ratings vary with function ON OFF Switches - ON when pressed over terminal 1 or 4



1500



ON - OFF

1510 µ



ON - ON

1520 µ



ON - OFF - ON

0430



Indicator

Rocker

A
Softline (Matt only)



B
Softline (Matt only)



W
Softline (Matt only)



X
Softline (Matt only)



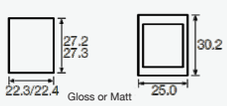
A
Softline (Matt only)



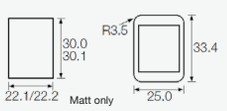
Body

Panel Cut - outs Bezel

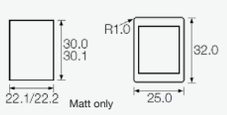
A



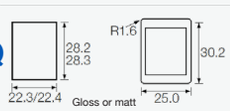
B



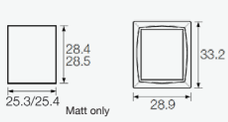
L



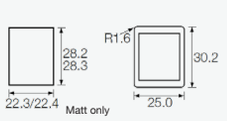
Q



R



T



Finish

M
Matt

G
Gloss

Applies to both Rocker & Body

Body Colour

B
Black

W
White

Rocker Colour

Un-Lit

B
Black

R
Red

W
White

Lit

A
Amber

C
Clear

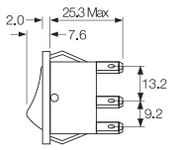
G
Green

R
Red

Dimensions

Panel thickness

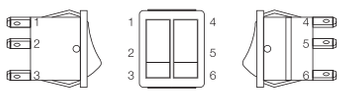
A,Q	0.75 to 3.3mm
L,B,T	0.75 to 2.5mm
R	0.75 to 3.0mm



Call sales for terminal spacing details

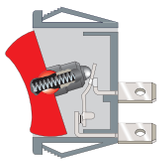
Twin units

Two single switches or a switch and an indicator light can be assembled side by side in one double Contact body.



For twin units the first set of order format details refer to the left hand unit, when looking at the front of the assembly.
(This has terminal numbers 1, 2 & 3)

Splash Resistant



Feather edge seals and a close fitting collar protect current carrying parts from moisture.

B option has Hytrel collar/ seals for enhanced protection.

Insert Colour

— Blank

R Red

W White

Lamp Voltage

— Blank

2 125V Neon

3 250V Neon

5 12Vdc LED (P Rocker)

6 24Vdc LED (P Rocker)

7 12V Filament

8 24Vdc Filament

Legend

— Blank

602A

Legend Colour

— Blank

B Black

W White

Options

Finish
Matt is standard.

Colour
Call factory for custom colours. A full range is available for large orders.

Legend printing
Select from the examples or call factory for custom legends.

Lamp voltage
Call factory for details.

Examples


C1500A/C1500AL


C1500A/C0430AL


C1500X/C1500XL


C1520A/C1510AL


C1500A/C1520AL


C0430A/C0430AL

1550 Standard and 1350 High Inrush

150A to EN61058-1 and 16A 250Vac



Key Features

- Standard rocker switch
- 1350/53 high inrush
- Choice of switching circuits including 3 position
- Push-on, solder and PCB terminals
- Choice of bezel styles
- Choice of panel cut outs
- Matching indicator
- Double Contact
- Splash resistant option
- Panel cut out 'A' style: 27.2 x 22.3mm

Approvals and specifications

1550 Series 16(4)A 250Vac T125 **(Pending)**

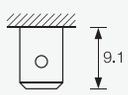
UL 16A 250Vac, (2 posn) 250Vac 1hp, 125Vac 1/2hp,
1350 72 Vdc 7A
(3 posn) 250 Vac 1/2hp, 125Vac 1/4hp.
UL 85°C

In house test:
10A 24Vdc—Indicative rating only. NB Types fitted with Neon will not illuminate for low DC voltage applications.

1350 series 16(4)A 250Vac T125 1E4 (10,000 Ops.)
1330 series 16(6)A 250Vac T125 1E4 (10,000 Ops.)
150A Inrush to EN61058-1.

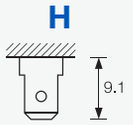
Terminal

C



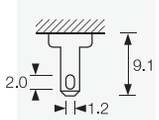
6.3 x 0.8

H



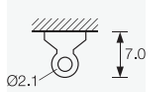
4.8 x 0.8*

K



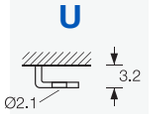
2.8 x 0.8*

T



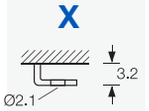
Solder

U



Right angle "T" solder terminal

X



PCB 0.8Sq*

Function

Standard 1550



ON - OFF

1551

HP rating N/A



ON - OFF
(momentary ON)

1552

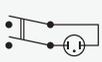
HP rating N/A



ON - OFF
(momentary OFF)

1553

Not W, X or B rocker



ON - OFF
Lit

1560 µ



ON - ON

1561 µ

HP rating N/A



ON - ON
(Momentary 1 Side)

1562 µ

In house tests only



2 Circuit
ON - ON

1570 µ

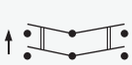
125V & 250V 1/2 HP
H terminal rated T100 only H terminal rated T100 only



ON - OFF - ON

1571 µ

HP rating N/A
H terminal rated T100 only



ON - OFF - ON
(momentary 1 side)

1572 µ

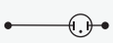
HP rating N/A
H terminal rated T100 only



ON - OFF - ON
(momentary 2 sides)

0480

X terminal N/A



High Inrush 1350

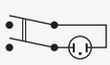
Not W, X or B rocker



ON - OFF

1353

Not W, X or B rocker



ON - OFF
Lit

Rocker

A

Softline Matt



B

Splash resistant Softline

V

Curved



Matt or Gloss — Gloss only Lit (not momentary)

W

Splash resistant Curved

P

Lit window Matt



Lit (not momentary)

X

Two colour Matt



(ON OFF only - not momentary)

R

Round



F

Flat Lens Gloss (0480)

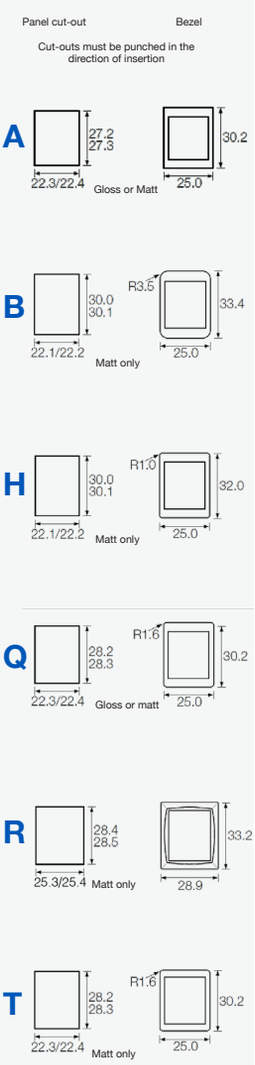


A

Softline lens Matt (0480 only) as F but with raised profile



Body



Approvals and specifications (continued)

UL 20A 250Vac 1hp, 125Vac 1/2hp.
UL 72Vdc 7A, 36Vdc 14A.
UL 85°C.

In house test:
20A 24Vdc—Indicative rating only

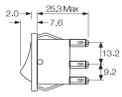
3mm contact gap except if marked µ.

Splash Resistance



1300 High inrush, positive break switching
The 1300 series mechanism ensures contact welds formed at
switch-on are positively separated by the plunger tube acting directly
on the step in the moving contact.

Dimensions



Panel thickness
A,Q 0.75 to 3.3mm
L,B,T 0.75 to 2.5mm
R 0.75 to 3.0mm

Finish	Body Colour	Rocker Colour	Insert Colour	Lamp Voltage	Legend	Legend Colour
M Matt	**B** Black	Un-Lit **B** Black	— Blank	— Blank	— Blank	— Blank
G Gloss	**W** White	**R** Red	**R** Red	**2** 125V Neon	**602A**	**B** Black
Applies to both Rocker & Body		**W** White	**W** White	**3** 250V Neon		
		Lit **A** Amber		**5** 12Vdc LED (P Rocker)		**W** White
		G Green		**6** 24Vdc LED (P Rocker)		
		C Clear		**7** 12V Filament		
		R Red		**8** 24Vdc Filament		

Options

Finish
Matt is standard.

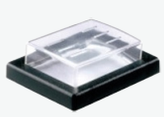
Colour
Call sales for custom colours.
A full range is available for large orders.

Legend printing
Select from the examples or
call sales for custom legends.

Lamp voltage
Call sales for details.

Blanking plates A0494
Dummy units to fill unused panel holes.

Protective cover
Snaps on to A, L, Q or T bodies (add G after body in cat no). This reduces panel thickness by 1mm.



Panel sealing washer W42 is available for the above body sizes. This reduces panel thickness by a further 1.00mm.
Covers are not suitable for momentary types.

For all options call sales.

Examples



C1350AL - - -



C1550XL - - -



C1553PL - - -



C1553RA ---
Shown with M614 bezel cover



Optional snap-in M441 barrier



C1553AA with M616 guard Cut-out 22.0/22.1 x 29.4/29.5 Guard accepts “A” body only



C0480RA ---
Shown with M614 bezel cover



C0480AL - - -

1550 Standard & 1350 High Inrush Switches

150A to EN61058-1 and 16A 250Vac250Vac



Key Features

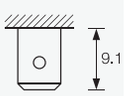
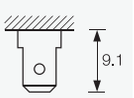
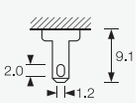
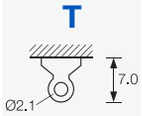
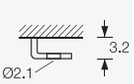
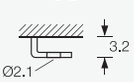
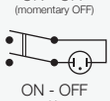
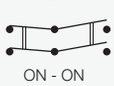
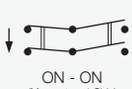
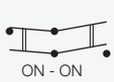
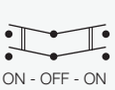
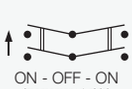
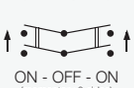
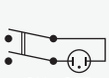
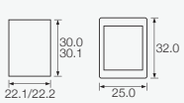
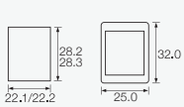
- Standard rocker switch
- 1350/53 high inrush
- Choice of switching circuits including 3 position
- Push-on, solder and PCB terminals
- Choice of bezel styles
- Choice of panel cut outs
- Matching indicator
- Double Contact
- Option with guard & cover
- DC LED Illumination Available for “P“ Rocker
- Bezel size ‘G’ style 32.0 x 25.0

Approvals and specifications

1550 Series 16(4)A 250Vac T125 **(Pending)**

UL 16A 250Vac, (2 posn) 250Vac 1hp, 125Vac 1/2hp,
(3 posn) 250 Vac 1/2hp, 125Vac 1/4hp.
UL 85°C.

1350 series 16(4)A 250Vac T125 1E4 (10,000 Ops.)
1330 series 16(6)A 250Vac T125 1E4 (10,000 Ops.)
150A Inrush to EN61058-1.

Terminal	Function	Rocker	Body	Finish	Body Colour	Rocker Colour
C  6.3 x 0.8 **H**  4.8 x 0.8* **K**  2.8 x 0.8* **T**  Solder **U**  Right angle T Solder (Not DP) **X**  PCB 0.8Sq* *Contact sales for details on 1350 series	**Standard 1550**  ON - OFF **1551** HP rating N/A  ON - OFF (momentary ON) **1552** HP rating N/A  ON - OFF (momentary OFF) **1553** Not W, X or B rocker  ON - OFF Lit **1560 µ**  ON - ON **1561 µ** HP rating N/A  ON - ON (Momentary 1 Side) **1562 µ** In house tests only  ON - ON 2 Circuit **1570 µ** 125V & 250V 1/2 HP H terminal rated T100 onlyH terminal rated T100 only  ON - OFF - ON **1571 µ** HP rating N/A H terminal rated T100 only  ON - OFF - ON (momentary 1 side) **1572 µ** HP rating N/A H terminal rated T100 only  ON - OFF - ON (momentary 2 sides) **High Inrush 1350** Not W, X or B rocker  ON - OFF **1353** Not W, X or B rocker  ON - OFF Lit	**A** Softline Matt  **V** Curved  Matt or Gloss Gloss only Lit (not momentary) **P** Lit window Matt  Lit (not momentary)	Panel cut-out Bezel Cut-outs must be punched in the direction of insertion **H**  Matt only **G**  Matt only	**M** Matt **G** Gloss Applies to both Rocker & Body	**B** Black **W** White	Un-Lit **B** Black **R** Red **W** White Lit **A** Amber **G** Green **C** Clear **R** Red

Approvals and specifications cont..

In house test:
10A 24Vdc—Indicative rating only

UL 20A 250Vac 1hp, 125Vac 1/2hp.
UL 72Vdc 7A, 36Vdc 14A, UL 85°C.

In house test:
20A 24Vdc—Indicative rating only

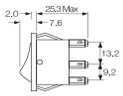
3mm contact gap except if marked µ

Splash Resistance



1350 High inrush, positive break switching
The 1350 series mechanism ensures contact welds formed at
switch-on are positively separated by the plunger tube acting directly on the step in the moving contact.

Dimensions



Panel thickness
G, H 0.75 to 2.5mm

Terminal spacing - Contacts 10.2 between centres

Insert Colour

— Blank

R Red

W White

Lamp Voltage

— Blank

2 125V Neon

3 250V Neon

5 12Vdc LED (P Rocker)

6 24Vdc LED (P Rocker)

7 12V Filament

8 24Vdc Filament

Legend

— Blank

602A

Legend Colour

— Blank

B Black

W White

Options

Finish
Matt is standard.

Colour
Call sales for custom colours.
A full range is available for large orders.

Legend printing
Select from the examples or
call sales for custom legends.

Lamp voltage
Call sales for details.

Examples



C1553AH - - -



C1550AH - - -

R13 Round Rocker Switches

10A 250Vac



Key Features

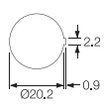
- Miniature round rocker switch
- Ratings up to 10A, 250Vac
- Single & double Contact
- Illuminated & nonilluminated, neon andLED
- Choice of actuators
- Matching indicator
- Panel cut out: 20.2 dia.

Approvals and specifications

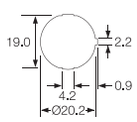
RoHS compliant
Single Contact has µ contact gap.

Special products
Are made to order and can be supplied with a range of body and rocker / lens colours, print & lamp voltage.

Dimensions

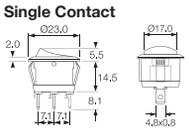


Snap fixing into
2.0 to 3.0mm panels

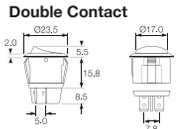


Snap fixing into
0.7 to 3.0mm panels

Single Contact



Double Contact



Protective cover L188



Snaps on to bodies (not R13 211 or R13 112LP), this reduces maximum acceptable panel thickness to 2.4mm.

Examples



R13 112B NAA



R13 112A AAA



R13 112A2 ---

R13	112	A	B	B	3	2	602A	W	L188
Series	Type	Function	Body Colour	Rocker Colour	Insert Colour	Lamp Voltage	Legend	Legend Colour	Legend Colour

Product details



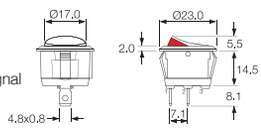
1 2
SP ON - OFF µ
Cat no.
R13 112A AAA



1 2 3
SP ON - OFF µ
Lit 230V
Cat no.
R13 112B NAC



1 2
SP ON - OFF µ
Bright colour ON signal
Cat no.
R13 112A2 - -





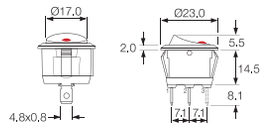
1 2
SP ON - OFF µ
Cat no.
R13 112A AAB

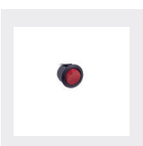


1 2 3
SP ON - ON µ
Cat no.
R13 112C AAA



1 2 3
SP ON - OFF µ
Lit Window
Cat no.
R13 112B2 - -





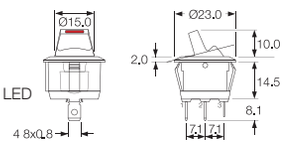
1 2 3
SP ON - OFF µ
Lit 230V
Cat no.
R13 112B NAA



1 2 3
SP ON - OFF - ON µ
Cat no.
R13 112D AAA



3−
12
3+
SP ON - OFF µ
Paddle tip has red LED
Cat no.
R13 112LP - -





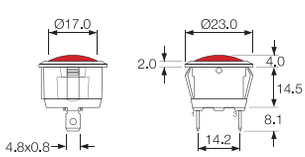
1 2 3
SP ON - OFF µ
Lit 230V
Cat no.
R13 112B NAB



SP ON - OFF µ
(Momentary ON)
Cat no.
R13 208F AAA*

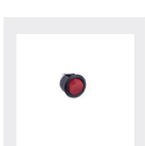


1 3
Indicator light
Cat no.
R9 92B - - -





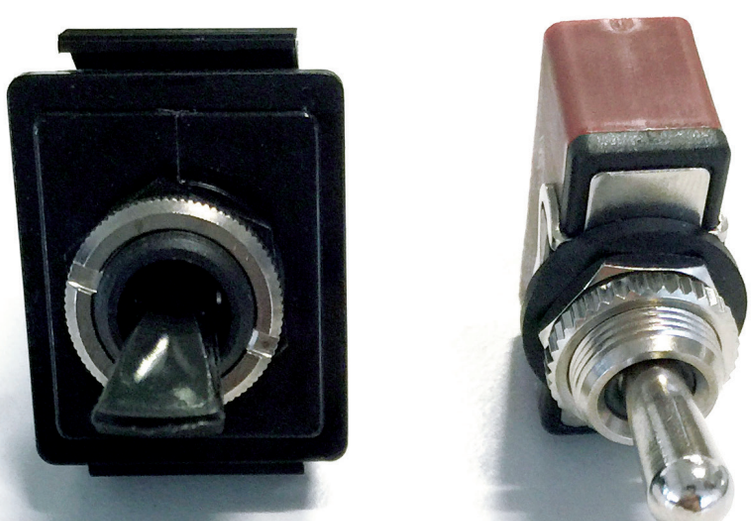
DP ON - OFF
Cat no.
R13 244A AAA



DP ON - OFF
Lit 230V
Cat no.
R13 244B NAA

Well known for their quality and reliability, Bulgin's toggle switches are cost effective solutions to many existing applications. These switches offer features at an attractive price point often well below that of the existing competition.

- Nylon and Metal switch variants
- Multiple Lever Options
- Ratings up to 20A, 250V ac - 277V ac
- IP67 panel seal versions, supplied complete with gaskets (3900 Series – All Variants)
- Single and double Contact
- Choice of circuit options including 3 position and momentary
- Mounting hole: 12.2mm diameter.
- Sealing accessories available
- Quick Connect, Solder, Screw and PCB Termination Options



3900 Metal Toggle Switches

16A 250Vac - IP67 Sealed Versions

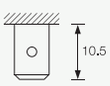


Key Features

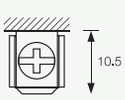
- Metal toggle switches
- Ratings up to 20A, 277V ac
- Single and double Contact
- Choice of circuits including 3 position and momentary
- Sealed version supplied complete with gaskets
- Panel seal version to IP67
- 6.3mm terminals
- Guard option

Terminal

C

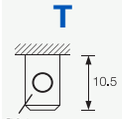


S



Screw & Clamp

T



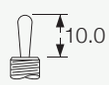
Solder

Function

Single Contact	Double Contact
3900 ON - OFF	**3950** ON - OFF
3901 ON - OFF (momentary ON)	**3951** ON - OFF (momentary ON)
3902 ON - OFF (momentary OFF)	**3952** ON - OFF (momentary OFF)
3910 ON - ON	**3960** ON - ON
3911 ON - ON (momentary 1 side)	**3961** ON - ON (momentary 1 side)
3920 ON - OFF - ON μ	**3970** ON - OFF - ON μ
3921 ON - OFF - ON μ (momentary 1 side)	**3971** ON - OFF - ON μ (momentary 1 side)
3922 ON - OFF - ON μ (momentary 2 sides)	**3972** ON - OFF - ON μ (momentary 2 sides)

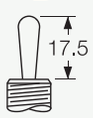
Actuator

A



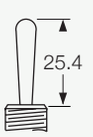
Metal
Metal toggle finish is nickel plate

B

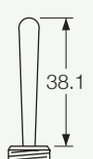


Metal
Metal toggle finish is nickel plate

D



E



Metal toggle finish is nickel plate

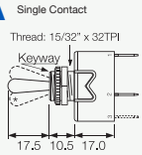
F



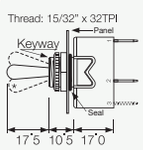
Metal toggle finish is nickel plate

Body

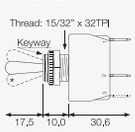
A Single Contact



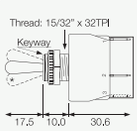
E Panel sealed, single Contact



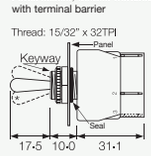
A Double Contact, without barrier



B Double Contact, with barrier

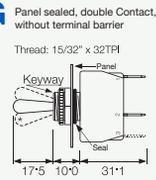


F Panel sealed, double Contact, with terminal barrier



Switches with F toggles have double Contact bodies, regardless of circuit

G Panel sealed, double Contact, without terminal barrier



Options

Neck Seal M539
Actuator is visible



Cover M1080



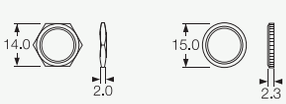
Covers have internal nylon nuts

M1080-2



Covers have internal metal hex nuts

Fixing nuts
Nickel plated brass are supplied



Knurled Front nut
Panel thickness 4.0 with backnut

Plate P236
Plate SP or DP



Approvals and specifications

ENEC approval currently pending
16A, 277Vac
1 HP, 250Vac

7A, 72Vdc
14A, 36Vdc

3910, 3901, 3952, 3960, 3961, 3970, 3971, 3972
16A, 277Vac
1 HP, 250Vac
1/2 HP, 125Vac
7A, 72Vdc
14A, 36Vdc

3900, 3950
20A, 277Vac
1 HP, 250Vac
1/2 HP, 125Vac
7A, 72Vdc
14A, 36Vdc

ENEC Ratings
3900, 3901, 3902, 3950, 3952, 3960, 3961
16(4)A 250Vac

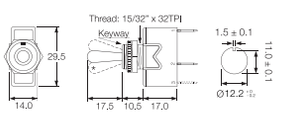
3910, 3911, 3920, 3921, 3922, 3951, 3970, 3972
10 4)A 250Vac

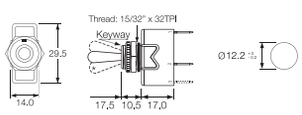
Approvals and ratings vary with function.
3mm contact gap except where marked µ.

Dimensions mm) * Indicates ON position (for ON - OFF switches)

Single Contact

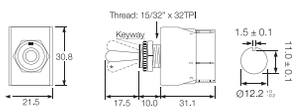
(C terminals shown)

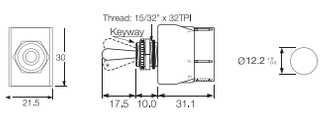




Double Contact

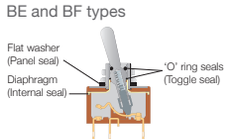
(C terminals shown with barrier)





Toggle Switch - sealed version

BE and BF types



Guard TG1-RED



Examples



C3900BE - - -



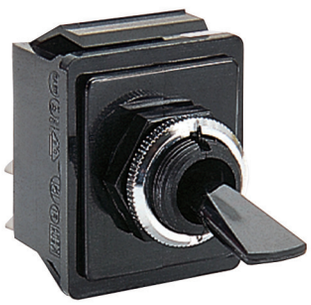
C3920BA - - -



C3950BF - - -



C3972BB - - -



Key Features

- Nylon toggle switches
- Ratings up to 20A, 250V ac
- Single and double Contact
- Wide choice of terminals
- Choice of circuit options including 3 position
- Flat & round actuator options

Approvals and specifications

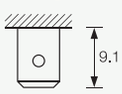
16(4)A 250Vac T85 (ENEC approval pending)

UL 20A 250Vac Non Ind (Single Contact)
UL 16A 250Vac Non Ind (Double Contact)
UL (2 pos types) 250Vac 1hp, 125Vac 1/2hp
UL (3 pos types) 250Vac 1/2hp, 125Vac 1/4hp
UL 85°C
UL N/A on momentary types

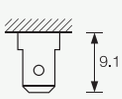
Selective “A, B, C” and “OFF, A, A+B” circuits at 5 amp also available.
3mm contact gap except where marked µ.

Terminal

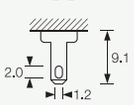
C



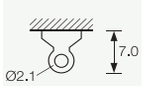
H



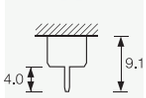
K



T



X



Function



Single Contact

1700
ON - OFF



1710 µ
ON - ON



1720 µ
ON - OFF - ON



1721 µ
ON - OFF - ON µ
(momentary 1 side)



1722
ON - OFF - ON µ
(momentary 2 sides)





Double Contact

1750
ON - OFF



1760 µ
ON - ON

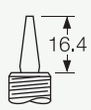


1770 µ
ON - OFF - ON



Actuator

H



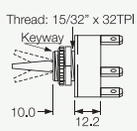
R



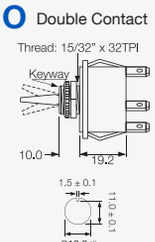
The switch is on between centre terminals (2 & 5) and the terminals over which the lever is positioned.

Body

O Single Contact



O Double Contact



Panel hole (all types)

Panel thickness (Max)
Both nuts - 3.5mm
Less backnut - 6.5mm

Options

Neck Seal M539

Material - Nitrile
(H & R Actuators)
Actuator visible



Cover M1080

Material - EPDM
(R Actuator only)



Cover M531

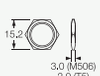
Material - PVC
(R Actuator only)



Covers have internal nylon nuts

Fixing nuts
(Standard is M506 & T92)

T5 Hex brass
M506 Hex nylon



T92 Knurled brass - slotted



M279 Knurled nylon



Plate P236
Plate SP or DP

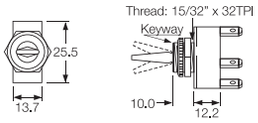


Dimensions

mm) * Indicates ON position (for ON - OFF switches)

Single Contact

(C terminals shown)

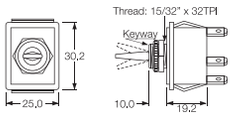




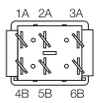
Optional
F00232PAAA
plate SP or DP

Double Contact

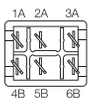
(C terminals shown)



Without barrier



With barrier



Examples



C1700R - -



C1700H - -



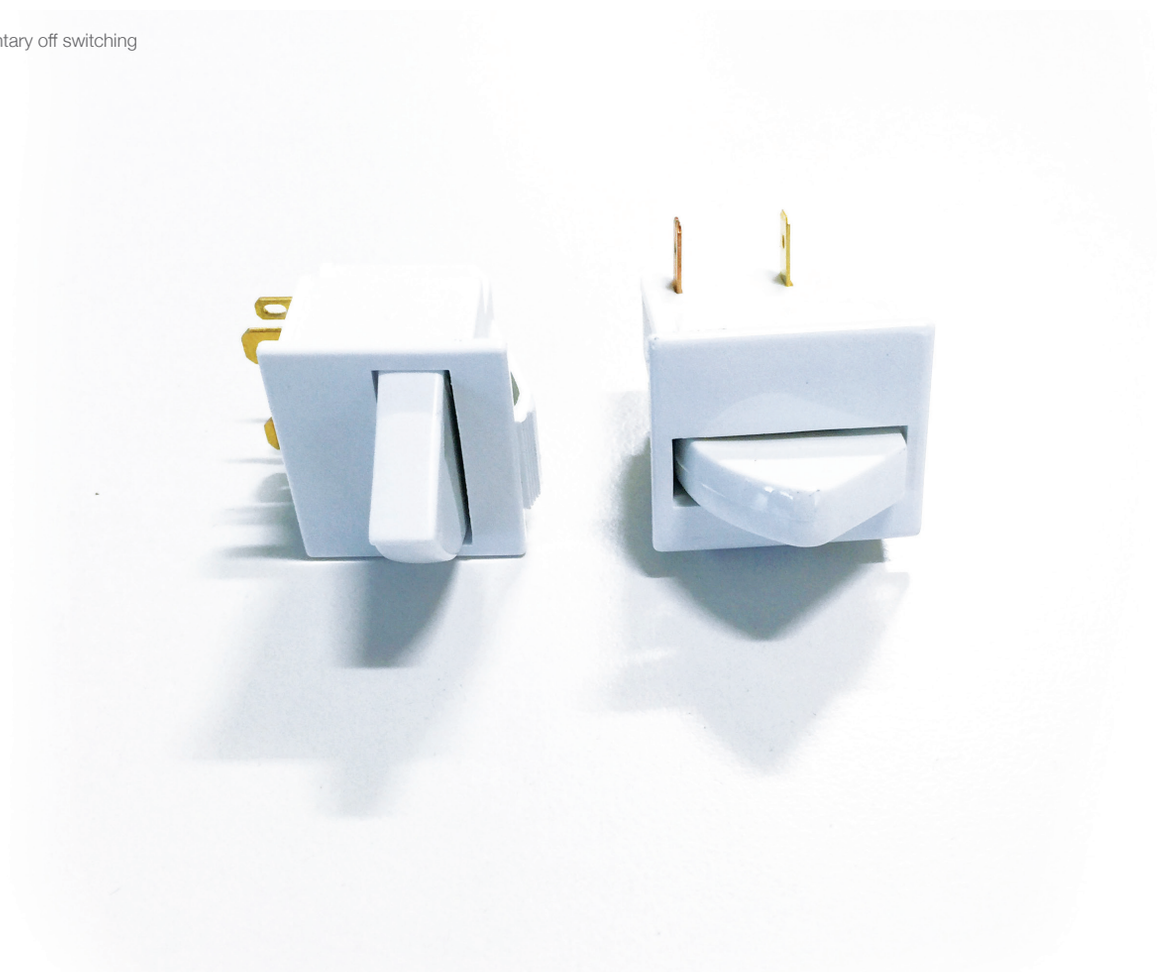
C1760R - -



C1750H - -

Long recognised as a leader in refrigerator door switches, Bulgin's wide range of types and configurations will suit almost any need. With both double contact and single contact options, our switches are not only ideal for traditional refrigerator and freezer applications but can and have been used in a variety of door applications as well.

- Door switches
- Switch rating from 0.2A, 250V ac up to 5A, 250Vac
- Splash resistant variants
- Choice of actuators
- Momentary on and momentary off switching



0055 Door Switches



C0056RB ---



C0055RB ---



C0056RB ---



C0055RB ---

Key Features

- Ratings up to 0.2A, 250V ac
- High temperature rating up to 125ºC
- Long overtravel
- Choice of terminal orientation

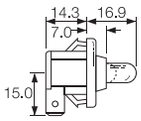
Approvals and specifications

0055 & 0056
0.2(0.2)A 250Vac 25T125 5E4
(50,000 operations)

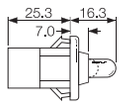
µ contact gap

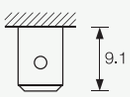
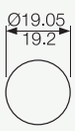
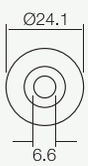
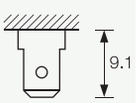
Dimensions and Properties

C0055RB



C0056RB



Terminal	Function	Actuator	Body	Options
C  6.3x0.8	**0055**  ON - OFF (momentary OFF) 90° terminals	**R** 	**B** Panel cut - out  Panel thickness 0055 1.0 - 1.6 0056 1.0 - 2.6 Flange  	Finish Gloss finish only Colour White or black Call sales for custom colours.
H  4.8x0.8	**0056**  ON - OFF (momentary OFF) straight terminals			

3005 Refrigerator Door Switches

Splash Resistant



C3005BL - - -

C3005CB - - -

Key Features

- Door switches
- Momentary on and momentary off switching
- Splash resistant
- Choice of terminal orientation
- Choice of actuators

Approvals and specifications

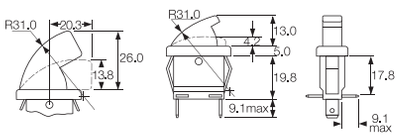
3005 25W 25T85 5E4 (50,000 Operations) 250Vac
3006 65W 25T85 5E4 (50,000 Operations) 250Vac
(ENEC approval pending)

UL 0.3A 250Vac (Black Versions Only)
UL 0.2A 125Vac (Black Versions Only)

μ contact gap

Dimensions and Properties

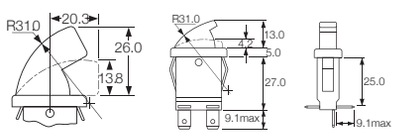
3005



Panel thickness 1.0 - 2.5mm

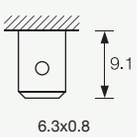
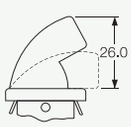
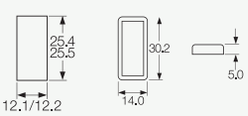
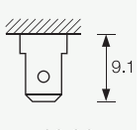
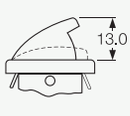
B Actuator C Actuator R, L & B terminals

3006



Panel thickness 1.0 - 2.5mm

B Actuator C Actuator R, L & B terminals

Terminal	Function	Actuator	Body	Options
C  6.3x0.8	**3005**  ON - OFF (momentary OFF) 1mm max travel to OFF position	**B**  	**R** **L** **B**  Terminal direction (viewed from hinge end) Panel cut - out Bezel Bezel Profile  	Finish Gloss finish only Colour White or black Call sales for custom colours. A full range is available for large orders.
H  4.8x0.8	**3006**  ON - OFF (momentary ON) 3mm min travel to ON position	**C**  		

3100 Refrigerator Door Switches

Splash resistant



E3111BA - - -



E3102AA - - -

Key Features

- Door switches
- Ratings up to 5A, 250V ac
- Splash resistant
- Changeover, momentary ON and momentary OFF
- Choice of actuators

Approvals and specifications

5A 250Vac 25T85 5E4 (50,000 Operations)

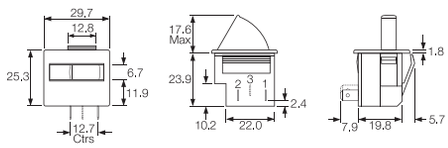
UL 5A 250Vac
UL 85°C, file E45221

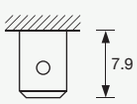
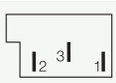
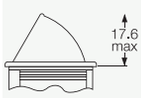
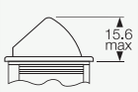
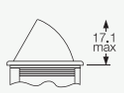
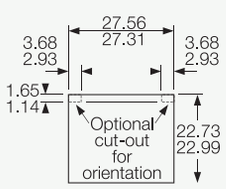
µ contact gap.
Sealed terminals option available.

Dimensions and Properties

3101 uses terminals 1,2
3102 uses terminals 1,2
3111 uses terminals 1,2,3

For details of actuator travel and switching angles call sales.



Terminal	Function	Actuator	Body	Colour	Options
E  4.8x0.5 QC	 **3101**  ON - OFF (momentary CLOSED) **3102**  ON - OFF (momentary OFF) **3111**  ON - ON (momentary 1 side)	**A**  **B**  **C**  **D** 	**A** 	**W** White **B** Black **PW** Polar White	Finish Gloss finish only Colour White or black Call sales for custom colours. A full range is available for large orders.

3100 ATEX Refrigerator Door Switches



Key Features

- ATEX Rated up to 2.5A, 250Vac
- Splash resistant
- Changeover, momentary ON and momentary OFF
- Choice of actuators & colours

Approvals and specifications

ATEX Approved for hazardous locations
2.5A 250Vac
Compiles with:
EN IEC 60079-0 & 60079-15
Ex II 3 G & Ex nC IIA Gc
Type Examination Certificate no. UL 22 ATEX 2897U

5A 250Vac (Standard location only)
25T85 5E4 (50,000 Operations)

UL 5A 250Vac (Standard location only)
UL 85°C

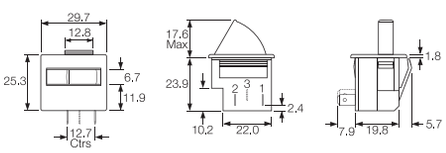
Dimensions and Properties

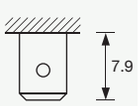
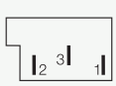
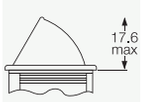
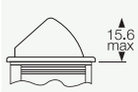
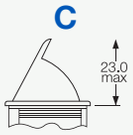
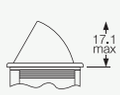
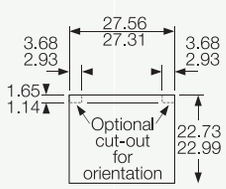
3101 uses terminals 1,2
3102 uses terminals 1,2
3111 uses terminals 1,2,3

μ contact gap.

For details of actuator travel and switching angles call sales.

Finish: Gloss finish only



Terminal	Function	Actuator	Body	Colour	Options	Approval
E  4.8x0.5 QC	 **3101**  ON - OFF (momentary CLOSED) **3102**  ON - OFF (momentary OFF) **3111**  ON - ON (momentary 1 side)	**A**  **B**  **C**  **D**  	**A**  	**W** White **B** Black **P** Polar White Call sales for custom colours. A full range is available for large orders.	**A** Standard Call sales for plated contacts and sealed terminal options.	**EX** ATEX Approved

Part Code System

E	31XX	X	A	X	X	X
Terminal E	**Function** 3101 3102 3111	**Actuator Type** A B C D	**Body** A	**Colour** W B P	**Options** A	**Approval** EX

3140 Refrigerator Door Switches

Splash resistant



HK3141AA - - -



H3145AA - - -

Key Features

- Door switches
- Ratings up to 5A, 250V ac
- Splash resistant
- Momentary action
- Choice of actuators
- 2 circuit switch

Approvals and specifications

5A 250Vac 25T85 5E4 (50,000 Operations)

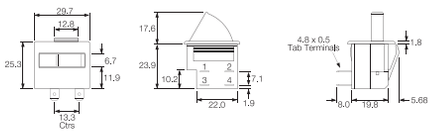
UL 5A 250Vac
UL 85°C

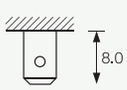
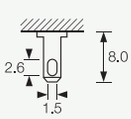
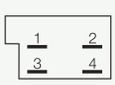
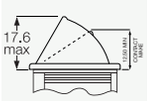
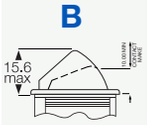
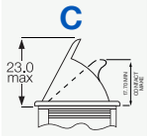
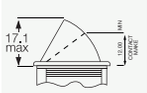
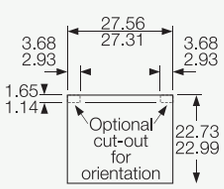
3141, μ contact gap.
3145 and 3146, 3mm contact gap.

Sealed terminals option available.

Dimensions and Properties

3141 uses terminals 1,2,3,4
3145 uses terminals 3,4
3146 uses terminals 1,2



Terminal	Function	Actuator	Body	Colour	Options
H  4.8x0.8 **K**  2.8x0.8 Standard format is H terminals in positions 1 & 2 and K terminals in positions 3 & 4 For sealed terminals call sales	 **3141** ON - ON (momentary) **3145** ON - OFF (momentary OFF) **3146** ON - OFF (momentary ON)	**A**  **B**  **C**  **D** 	**A** 	**W** White **B** Black **PW** Polar White	Finish Gloss finish only Colour White or black Call sales for custom colours. A full range is available for large orders.

3140 ATEX Refrigerator Door Switches



Key Features

- ATEX Rated up to 2.5A, 250Vac
- Splash resistant
- Momentary action
- Choice of actuators & colours
- 2 circuit switch

Approvals and specifications

ATEX Approved for hazardous locations
2.5A 250Vac
Compiles with:
EN IEC 60079-0 & 60079-15
Ex II 3 G & Ex nC IIA Gc
Type Examination Certificate no. UL 22 ATEX 2897U

5A 250Vac (Standard location only)
25T85 5E4 (50,000 Operations)

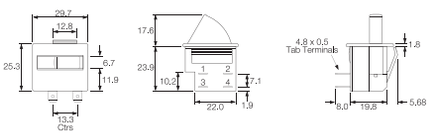
UL 5A 250Vac (Standard location only)
UL 85°C

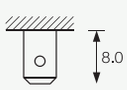
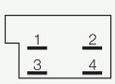
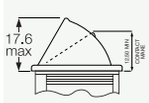
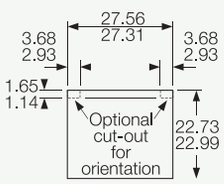
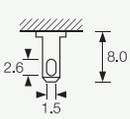
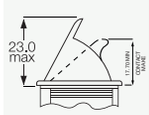
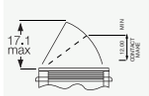
Dimensions and Properties

3141 uses terminals 1,2,3,4
3145 uses terminals 3,4
3146 uses terminals 1,2

3141, μ contact gap.
3145 and 3146, 3mm contact gap.

Finish: Gloss finish only



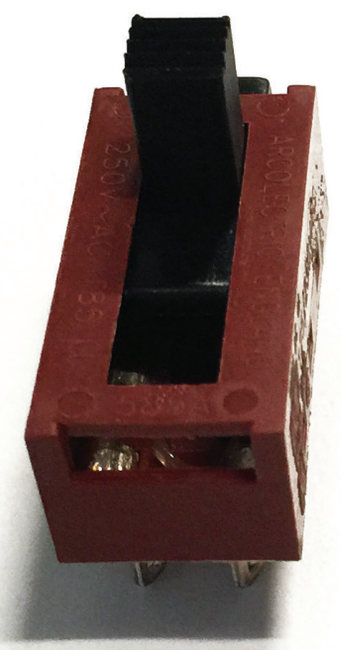
Terminal	Function	Actuator	Body	Colour	Options	Approval
H  4.8x0.8	 **3141** ON - ON (momentary)	**A** 	**A** 	**W** White	**A** Standard	**EX** ATEX Approved
K 3141 Only  2.8x0.8	**3145** ON - OFF (momentary OFF)	**B** 		**B** Black		
	3146  ON - OFF (momentary ON)	**C** 		**P** Polar White		
		D 				
Standard format is H terminals in positions 1 & 2 and K terminals in positions 3 & 4 (HK3141)				Call sales for custom colours. A full range is available for large orders.	Call sales for plated contacts and sealed terminal options.	

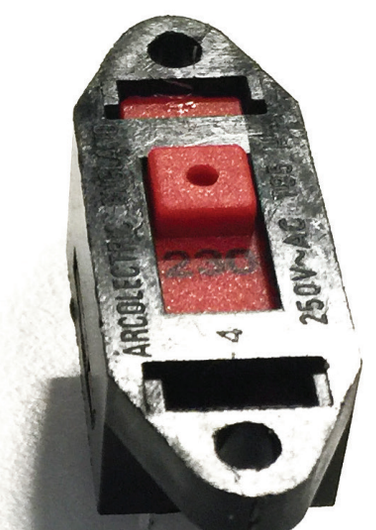
Part Code System

X	314X	X	A	X	X	X
Terminal HK (3141 only) H	**Function** 3141 3145 3146	**Actuator Type** A B C D	**Body** A	**Colour** W B P	**Options** A	**Approval** EX

With up to 5 switching positions as well as multiple terminal, circuit and slider options, Bulgin's board mounted power slide switches can be configured to suit your needs. We also offer a wide range of voltage selector types that can be either snapped into a panel or flange mounted.

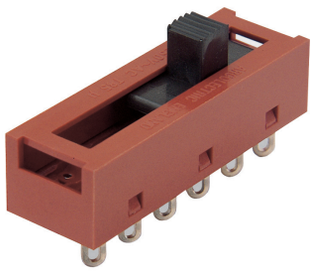
- Ratings up to 16A, 250V ac
- PCB and solder terminals
- Voltage Selector Models
- Snap in and flange mounting
- 2, 3, 4 and 5 position
- Choice of circuits
- Choice of actuators





2000 Slide Switches - up to 5 position

10A 250Vac



Key Features

- Slide switches
- Ratings up to 16A, 250V ac
- PCB and solder terminals
- 2, 3, 4 and 5 position
- Choice of circuits
- Choice of actuators

Approvals and specifications

10A 250Vac T85
6(3)A 250Vac T85 (ENEC approval pending)

UL 16A 250Vac Non Inductive
UL 4A 300Vac
UL 65°C

μ contact gap
Please specify: Standard action (SP116) or Light action (SP118).
2000 series lubrication is inorganic and does not degrade plastics.

Terminal	Series	Position	Circuit	Slider
K 2.8 x 0.8 **R** 2.8 x 0.8 **T** Solder **X** PCB 0.8 Sq. **Y** PCB 0.8 Sq. For mounting stability switches have extra "support" terminals * Nominal - Dimension varies with body type. For exact figure call sales	**2**	**2** Switching positions **3** Switching positions **4** Switching positions **5** Switching positions	10, 20, 30, 40 10, 20, 30, 40 10, 20, 30, 40 10, 20, 30, 40	**0** **1** **2** **3** **4** **5** **6** **7** **9** **A** **B** **C** **D** **E** **G** **H** **J** **K** **L** **N** **P** **R** **S** **T**

Examples


X22205C - - -


T2220EC - - -


T23206A - - -

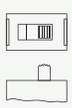

T24306A - - -


T25302A - - -

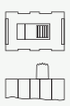

T25100A - - -

Body

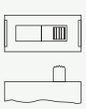
C 2 positions



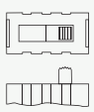
H 2 positions



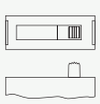
A 3 positions



H 3 positions



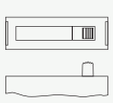
A 4 positions



H 4 positions



A 5 positions



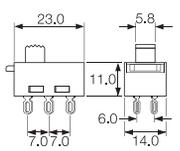
Options

Colour
Call sales for custom colours.
A full range is available for large orders.

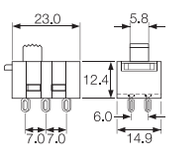
Legend printing
A wide range is available
For all options call sales

Dimensions

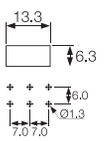
C 2 positions



H 2 positions

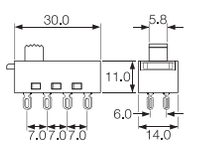


Cut-out /PCB Matrix

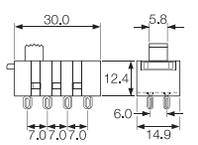


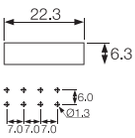
for PCB

A 3 positions



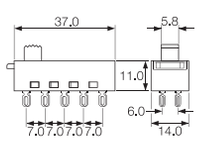
H 3 positions



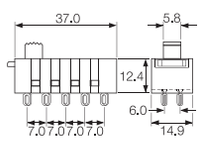


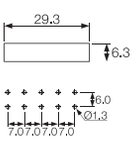
for PCB

A 4 positions



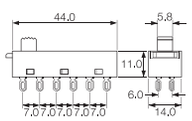
H 4 positions

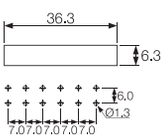




for PCB

A 5 positions

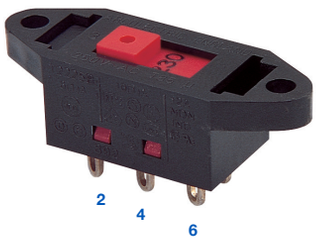




for PCB

2000 Slide Switches - Snap fit and panel mount

10A 250Vac



115/230 is preferred legend

Key Features

- 2 way 'voltage selector'
- Ratings up to 16A, 250V ac
- Snap fit and panel mount
- PCB & solder terminals
- 2 and 3 position
- Choice of circuits
- Choice of actuators

Approvals and specifications

10A 250Vac T85
6(3)A 250Vac T85 (ENEC approval pending)

UL 16A 250Vac Non Inductive
UL 4A 300Vac
UL 65°C

µ contact gap
Please specify: Standard action (SP116) or Light action (SP118).
2000 series lubrication is inorganic and does not degrade plastics.

Terminal	Series	Position	Circuit	Slider
K 2.8 x 0.8 **R** 2.8 x 0.8 **T** Solder **X** PCB 0.8 Sq. For mounting stability switches have extra "support" terminals. * Nominal - Dimension varies with body type. For exact figure call sales	**2**	**2** Switching positions	**10** 5 3 1 / 6 4 2 **20** 5 3 1 / 6 4 2 **30** 5 3 1 / 6 4 2 **40** 5 3 1 / 6 4 2	**0** 5.8Sq, 6.0, 21.0 **2** 5.8Sq, 1.7, 21.0, Ø2.0 Hole **3** 5.8Sq, 2.4 Slot, 5.5, 11.0, 15.5 **4** Ø2.5, 3.0, 5.8Sq, 15.5 **5** 5.8Sq, 1.0, 21.0, Ø2.0 Hole **6** 5.8Sq, 6.0, 15.5 **7** 5.8Sq, 4.0, 15.5 **8** 4.0, 18.4, 8.0 **9** 5.8Sq, 3.5, 15.5 **A** 5.8Sq, 9.5, 21.0 **C** 5.8Sq, 2.3, 13.5, Ø2.0 Hole **D** 5.8Sq, 9.5, 15.5 **E** 7.0, 8.2, 9.2, 21.0, 2.0 Blade, 5.8 **H** 5.7Sq, 4.7, 21.0 **K** 8.0, 5.4, 15.5, 2.3 Blade, 5.8 **L** 8.0, 7.9, 2.3 Blade, 15.5, 5.8 **M** 4.1, 18.4, 4.8 **N** 4.2, 7.5, 21.0, 5.8 **P** 7.7, 4.0, 15.5, 5.6 **R** Ø5.0, 2.4, 15.5, 5.8 **S** 8.0, 9.0, 2.2 Blade, 15.5, 5.8 **T** 5.8Sq, 4.6, 15.5
		3 Switching positions	**10** 7 5 3 1 / 8 6 4 2 **20** 7 5 3 1 / 8 6 4 2 **30** 7 5 3 1 / 8 6 4 2 **40** 7 5 3 1 / 8 6 4 2	

Examples


T22208E - - -


T22308E - - -


T2230MF - - -

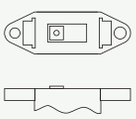

T22205B - - -


T22305B - - -


T23204B - - -

Body

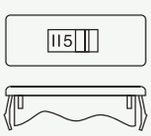
B
With mounting holes



E
Snap fit



F
Snap fit
(single contact ON OFF only)

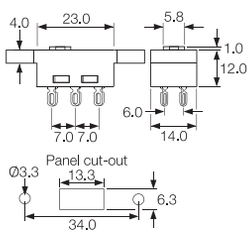


Options

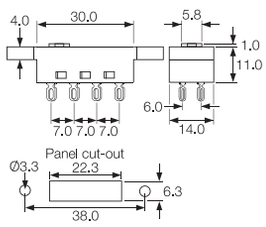
Colour
Call sales for custom colours.
A full range is available for large orders.
Standard body colour is black.

Dimensions

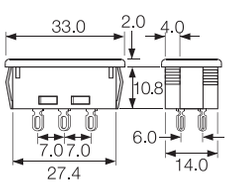
2 Pos B

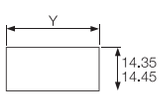


3 Pos B



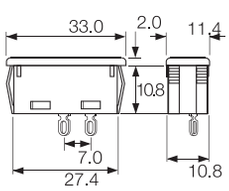
2 Pos E

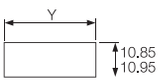




Panel thickness	Dim. Y
0.8-1.2	29.75/29.85
1.63	30.15/30.25
2.0	30.35/30.45
2.5	30.55/30.65

2 Pos F





Panel thickness	Dim. Y
0.8-1.2	29.75/29.85
1.63	30.15/30.25
2.0	30.35/30.45
2.5	30.55/30.65

Manufactured from quality moulding and metal components to ensure a secure and reliable connection, Bulgin's battery holder range caters for battery sizes AAA(R03), AA(R6), C(R14), D(R20) and PP3(6R61), accommodating 1, 2, 3 or 4 cells.



There's a choice of fixing styles including screw and flange panel fixing, PCB and base mounting versions.

The panel mounting versions are now available in two styles; standard fixing and front panel sealed to IP67, extending the applications into harsher external environments where dust or water would inhibit equipment operation.

The open frame styles are designed to be either PCB or base mounted and most have an interlocking facility to join adjacent holders together.

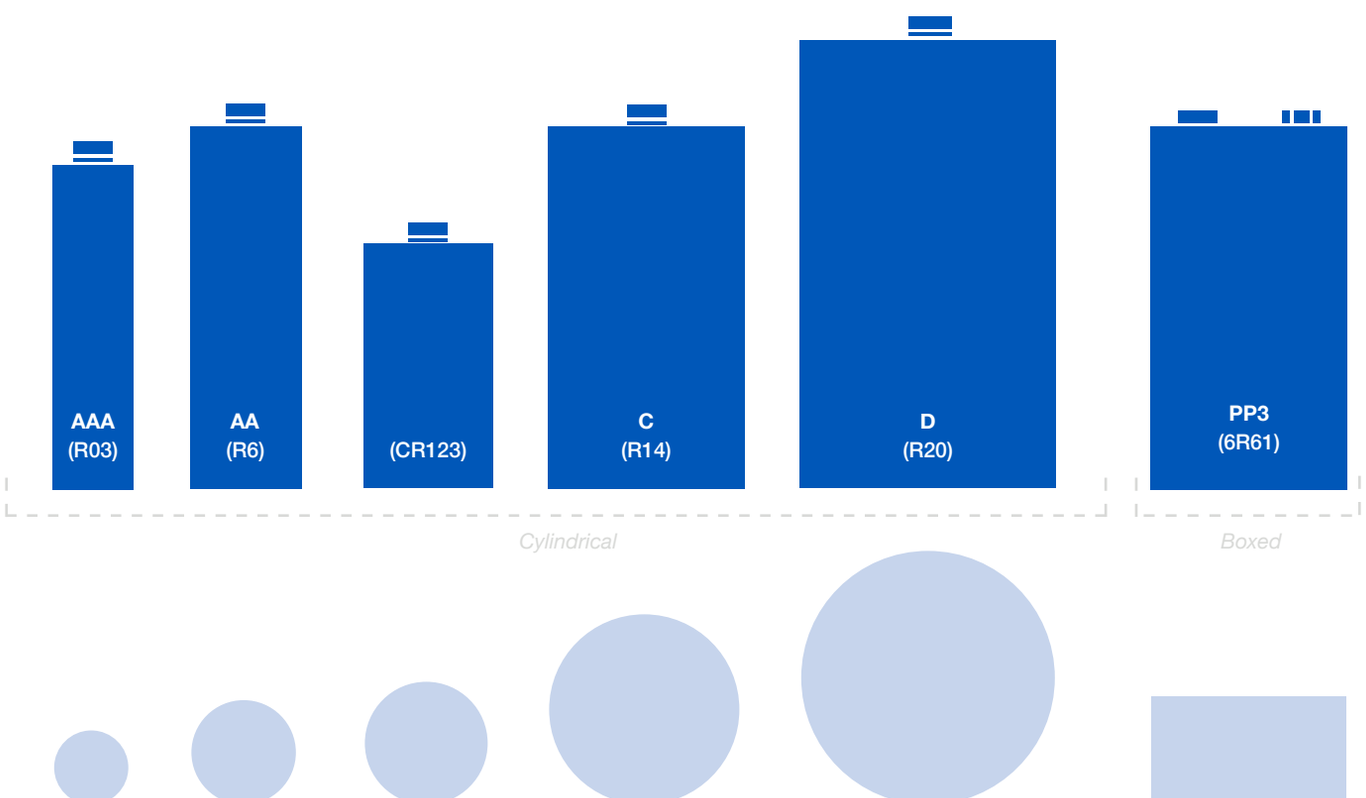
Principle applications include portable equipment and memory back-up.

Front panel sealed to IP67 100
Panel Mounting 101
PCB/Base Mounting 103

Battery Holder Selector

Maximum Battery Size to BSEN 60086-1 and -2

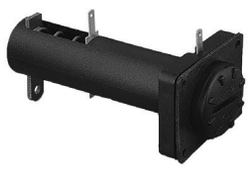
Battery size	Battery Dimensions	No. of Cells	Mounting	Part No.
AAA (R03)	Ø10.5 x 44.5	1	PCB/Base	BX0034
AA (R6)	Ø14.5 x 50.5	1	PCB/Base	BX0035
		1	Panel	BX0011/1
		2	Panel	BX0012/1
		3	Panel	BX0013/1
		4	Panel	BX0027
		1	Panel Sealed	BXS011/1
		2	Panel Sealed Panel	BXS012/1
		3	Sealed	BXS013/1
CR123	Ø17.0 x 34.5	1	PCB/Base	BX0123
C (R14)	Ø26.2 x 50	1	PCB/Base	BX0036
		1	Panel	BX0001/1
		2	Panel	BX0002/1
		3	Panel	BX0003/1
		1	Panel Sealed	BXS001/1
		2	Panel Sealed	BXS002/1
		3	Panel Sealed	BXS003/1
D (R20)	Ø34.2 x 61.5	1	PCB/Base	BX0037
		1	Panel	BX0016
		2	Panel	BX0017
		3	Panel	BX0018
		1	Panel Sealed	BXS016
		2	Panel Sealed	BXS017
		3	Panel Sealed	BXS018
PP3 (6R61)	W26.5 x D17.5 x H48.5	1	PCB/Base	BX0033
		1	Panel	BX0023
		1	Panel	BX0023/GY
		2	Panel	BX0026



As batteries from different manufacturers may vary slightly in size, Dimensions & Drawings are approximate only.
All Bulgin Battery Holders have polarity clearly marked.

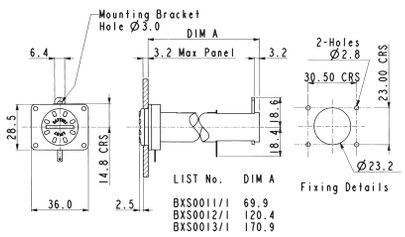
Front panel sealed to IP67

AA SIZE BATTERY HOLDER



BXS011/1

- 1, 2 or 3 Cells
- Flanged Panel Mount
- Bayonet with finger/coin slot release
- Supplied with gasket and sealing grommets for screws

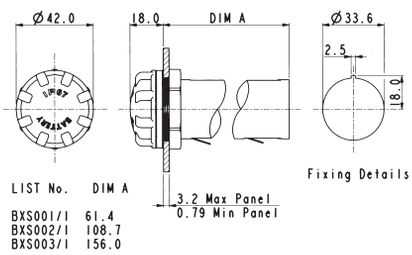


C SIZE BATTERY HOLDER



BXS001/1

- 1, 2 or 3 Cells
- Panel Mount
- Screw Cap/Hand release
- Supplied with gasket

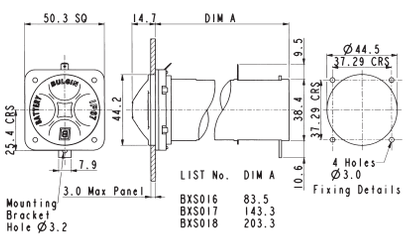


D SIZE BATTERY HOLDER



BXS016

- 1, 2 or 3 Cells
- Flanged Panel Mount
- Bayonet/finger release
- Supplied with flange gasket and sealing grommets for screws



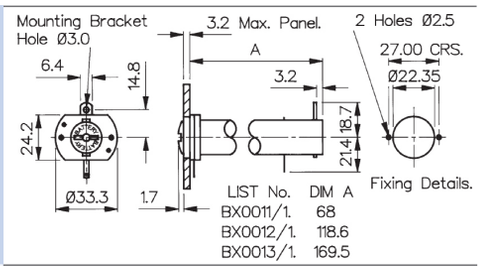
Specification	BXS011/1, BXS012/1, BXS013/1	BXS001/1, BXS002/1, BXS003/1	BXS016, BXS017, BXS018
Battery/Cell Type:	AA (R6)	C (R14)	D (R20)
No. Cells:	BXS011/1 - 1 cell BXS012/1 - 2 cells BXS013/1 - 3 cells	BXS001/1 - 1 cell BXS002/1 - 2 cells BXS003/1 - 3 cells	BXS016 -1 cell BXS017 - 2 cells BXS018 - 3 cells
Terminations:	2.8 series tabs/solder tags	2.8 series tabs/solder tags	4.8 series tabs/solder tags
Operating Temperature:	–30°C to +70°C	–30°C to +70°C	–30°C to +70°C
Mouldings:	Nylon Glass filled Polyester Polycarbonate	Nylon Glass filled Polyester	Nylon Glass filled Polyester
Flammability Rating:	UL94V-0	UL94V-0	UL94V-0
Contacts:	Brass,Tin Plated - rear contact Nickel Silver, clean - front contact and cap contact plate	Brass, Tin Plated - front and rear contacts Nickel Silver, clean - cap contact plate	Brass, Nickel Plated - front and rear contacts and cap contact plate
Features:	Bayonet cap with finger grip and coin slot Rear support bracket	Screw on cap with finger grip Recommended torque for panel ring 1.13-1.7Nm (10-15lbf.in)	Bayonet cap with finger grip Rear support bracket
Sealing (front of panel):	Protection classification IP67, EN60529:1992+A2:2013	Protection classification IP67, EN60529:1992+A2:2013	Protection classification IP67, EN60529:1992+A2:2013
Notes:	Recommend 2 & 3 cell versions are supported by rear bracket		Recommend 2 & 3 cell versions are supported by rear bracket
RoHS	Compliant	Compliant	Compliant
Dim A (depending on number of cells):	BXS011/1 = 69.9 BXS012/1 = 120.4 BXS013/1 = 170.9	BXS001/1 = 61.4 BXS002/1 = 108.7 BXS003/1 = 156.0	BXS016 = 83.5 BXS017 = 143.3 BXS018 = 203.3

AA SIZE BATTERY HOLDER

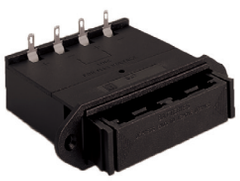


BX0011/1

- 1, 2 or 3 Cells
- Flanged Panel Mount
- Bayonet/Screwdriver release

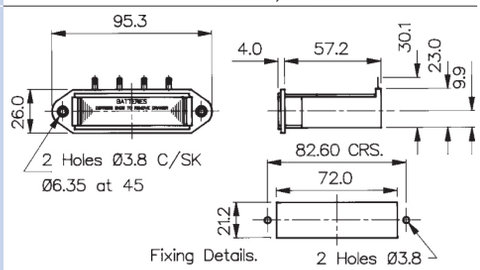


AA SIZE BATTERY HOLDER



BX0027

- 4 Cells
- Flanged Panel Mount
- Drawer function

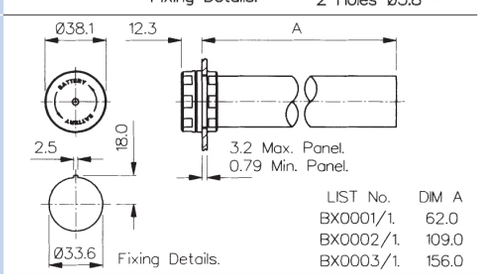


C SIZE BATTERY HOLDER



BX0001/1

- 1, 2 or 3 Cells
- Panel Mount
- Screw Cap/Hand release



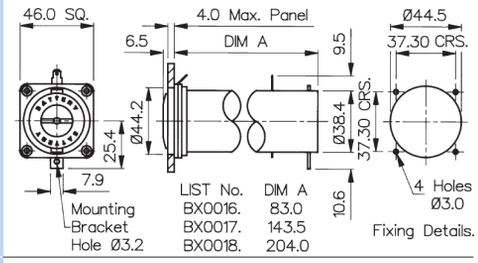
Specification	BX0011/1, BX0012/1, BX0013/1	BX0027	BX0001/1, BX0002/1,BX0003/1
Battery/Cell Type:	AA (R6)	AA (R6)	C (R14)
No. Cells:	BX0011/1 - 1 cell BX0012/1 - 2 cells BX0013/1 - 3 cells	4 cells	BX0001/1 - 1 cell BX0002/1 - 2 cells BX0003/1 - 3 cells
Terminations:	2.8 series tabs/solder tags	4 solder tags (can be wired in series or in pairs)	2.8 series tabs/solder tags
Operating Temperature:	–30°C to +70°C	–30°C to +70°C	–30°C to +70°C
Flammability Rating:	UL94V-0	UL94HB	UL94V-0 (Cap = UL94HB)
Mouldings:	Glass Filled Nylon & Polyester	Glass Filled Nylon	Nylon & Glass Filled Nylon
Contacts:	Brass, Tin Plated Nickel Silver, clean	Phosphor Bronze, Tin Plated Nickel Silver, clean	Nickel Silver, clean Brass, Tin Plated
Features:	Bayonet cap with coin slot Rear support bracket	Removable loading/latching drawer	Screw on cap. Recommended torque for panel ring 1.13-1.7Nm (10-15lbf.in)
Notes:	Recommend 2 & 3 cell versions are supported by rear bracket		
RoHS	Compliant	Compliant	Compliant
Dim A (depending on number of cells):	BX0011/1 = 68 BX0012/1 = 118.6 BX0013/1 = 169.5		BX0001/1 = 62.0 BX0002/1 = 109.0 BX0003/1 = 156.0

D SIZE BATTERY HOLDER



BX0016

- 1, 2 or 3 Cells
- Flanged Panel Mount
- Bayonet/Screwdriver release

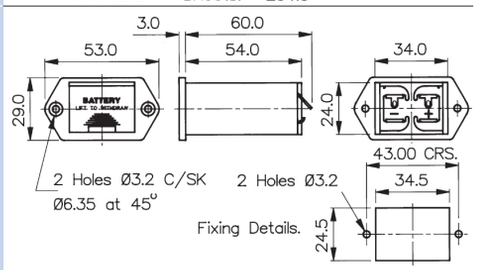


PP3 SIZE BATTERY HOLDER



BX0023
BX0023/GY

- 1 Cell
- Flanged Panel Mount
- Drawer function
- Grey version available (BX0023/GY)

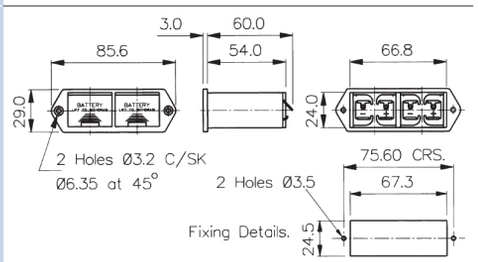


PP3 SIZE BATTERY HOLDER



BX0026

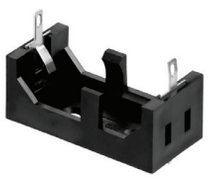
- 2 Cell
- Panel Mount
- Screw Cap/Hand release



Specification	BX0016, BX0017, BX0018	BX0023, BX0023/GY	BX0026
Battery/Cell Type:	D (R20)	PP3 (6R61)	PP3 (6R61)
No. Cells:	BX0016 -1 cell BX0017 - 2 cells BX0018 - 3 cells	BX0023 - 1 cell BX0023/GY - 1 cell (grey version)	2 cells
Terminations:	4.8 series tabs/solder tags	Solder tag	Solder tags
Operating Temperature:	–30°C to +70°C	–30°C to +70°C	–30°C to +70°C
Flammability Rating:	UL94V-0 (Cap = UL94HB)	UL94HB	UL94HB
Mouldings:	Nylon & Polycarbonate	Glass Filled Nylon	Glass Filled Nylon
Contacts:	Brass, Nickel Plated	Phosphor Bronze, Tin Plated	Phosphor Bronze, Tin Plated
Features:	Bayonet cap with coin slot Rear support bracket	Removable loading drawer	Removable loading drawer
Notes:	Recommend 2 & 3 cell versions are supported by rear bracket		
RoHS	Compliant	Compliant	Compliant
Dim A (depending on number of cells):	BX0016 = 83.0 BX0017 = 143.5 BX0018 = 204.0		

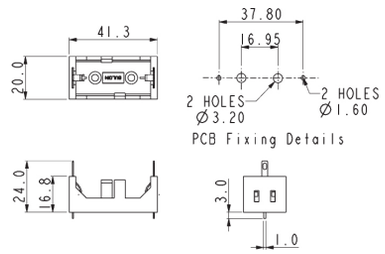
PCB/Base Mounting

CR123 SIZE BATTERY HOLDER



BX0123

- 1 Cell
- PCB/Base Mount
- Open style

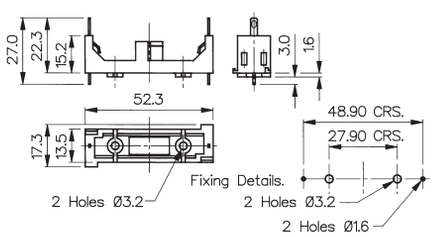


AAA SIZE BATTERY HOLDER



BX0034

- 1 Cell
- PCB/Base Mount
- Open style

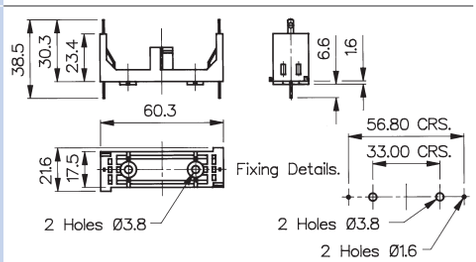


AA SIZE BATTERY HOLDER



BX0035

- 1 Cell
- PCB/Base Mount
- Open style



Specification	BX0123	BX0034	BX0035
Battery/Cell Type:	CR123	AAA (R03)	AA (R6)
No. Cells:	1 cell	1 cell	1 cell
Terminations:	Dual connections, PCB spills & 2.8 series tabs/solder tags. (PCB spills may be removed if required)	Dual connections, PCB spills & 2.8 series tabs/solder tags. (PCB spills may be removed if required)	Dual connections, PCB spills & 2.8 series tabs/solder tags. (PCB spills may be removed if required)
Operating Temperature:	–30°C to +70°C	–30°C to +70°C	–30°C to +70°C
Flammability Rating:	UL94HB	UL94HB	UL94HB
Mouldings:	Glass Filled Nylon	Glass Filled Nylon	Nylon & Glass Filled Nylon
Contacts:	Nickel Silver, clean	Nickel Silver, clean	Nickel Silver, clean
Features:		Interlocking for multiple assemblies	Interlocking for multiple assemblies
RoHS	Compliant	Compliant	Compliant

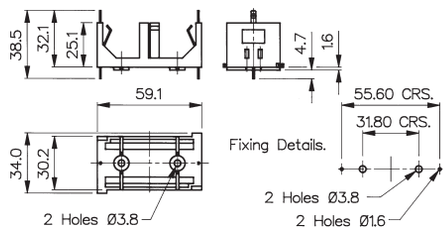
PCB/Base Mounting

C SIZE BATTERY HOLDER



BX0036

- 1 Cell
- PCB/Base Mount
- Open style

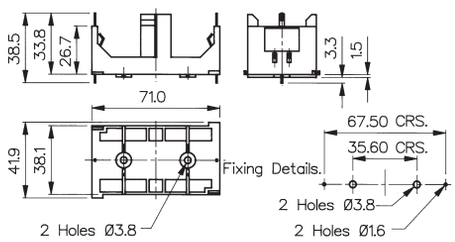


D SIZE BATTERY HOLDER



BX0037

- 1 Cell
- PCB/Base Mount
- Open style

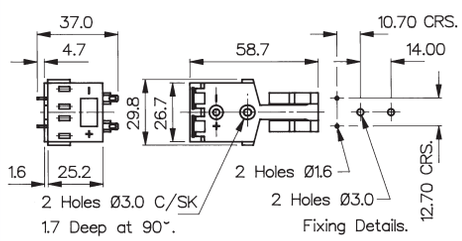


PP3 SIZE BATTERY HOLDER



BX0033

- 1 Cell
- PCB/Base Mount
- Open style



Specification	BX0036	BX0037	BX0033
Battery/Cell Type:	C (R14)	D (R20)	PP3 (6R61)
No. Cells:	1 cell	1 cell	1 cell
Terminations:	Dual connections, PCB spills & 2.8 series tabs/solder tags. (PCB spills may be removed if required)	Dual connections, PCB spills & 2.8 series tabs/solder tags. (PCB spills may be removed if required)	Dual connections, PCB spills & 2.8 series tabs/solder tags. (PCB spills may be removed if required)
Operating Temperature:	–30°C to +70°C	–30°C to +70°C	–30°C to +70°C
Flammability Rating:	UL94HB	UL94HB	UL94V-2
Mouldings:	Glass Filled Nylon	Glass Filled Nylon	Nylon & Glass Filled Nylon
Contacts:	Nickel Silver, clean	Nickel Silver, clean	Nickel Silver, clean
Features:	Interlocking for multiple assemblies	Interlocking for multiple assemblies	
RoHS	Compliant	Compliant	Compliant

A full range of quality mains rated inlets, outlets and connectors conforming to IEC and EN 60320 specifications carrying UL as well as cUL, VDE and other approvals.

With electrical ratings up to 20A, 250V (UL) these connector ranges offer solutions to most mains powered equipment and cable applications.

The combinations of mounting styles and terminations include: flange fixing, snap to panel and PCB mounting versions together with 2.8/ solder tabs, 4.8 and 6.3 fast on tabs, screw terminal and PC spill versions.

Completing the range are insulating boots, retaining and safety covers

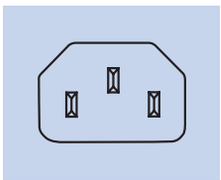
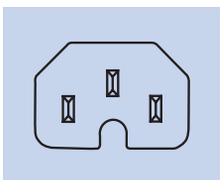
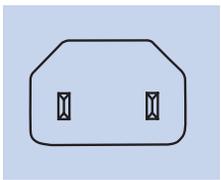
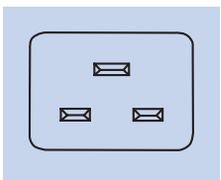
In addition to the standard black moulding, most styles are also available in either white or grey and special colours to match OEM equipment can also be supplied. (Subject to product approval requirements)

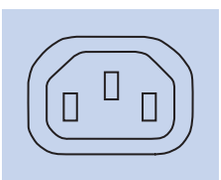
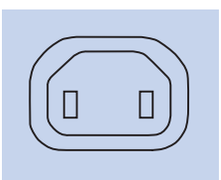


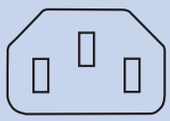
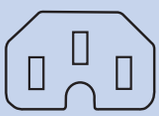
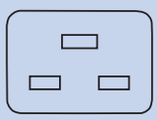
IEC60320 Main Inlets and Outlets 2
IEC Distribution Units 486
Power Entry Modules 491
Mains Filters 513

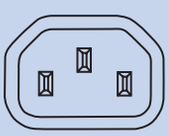
IEC 60320 Main Inlets and Outlets

Panel Mounting

IEC 60320-1	Sheet No:	No Plugs	Current Rating	Flange Fixing	Snap fit	Fused Flange	Fused Snap fit	Filtered	Fuse Filtered
	C14	3	10A, 250V AC	PX0579 PX0580 PX0580/PC PX0580/PC/12132 PX0580/PC/7 PX0580/PC/7LC	PX0575 PX0575/PC	PF0001 PF0001/PC PF0002 PF0030 PF0030/PC	PF0011 PF0011/PC	PS00 PS01	PS20 PS21 PS25 PS26
	C16	3	10A, 250V AC	PX0590	PX0595				
	C18	2	10A, 250V AC	PX0690	PX0691 PX0691/PC	PF0006 PF0007	PF0016		
	C20	3	3 16A, 250V AC	PX0596	PX0598				

IEC 60320-2-2	Sheet No:	No Plugs	Current Rating	Flange Fixing	Snap fit	Fused Flange	Fused Snap fit	Filtered	Fuse Filtered
	F	3	10A, 250V AC	PX0675 PX0675/PC PX0675/PC/12599 PX0793 (Shuttered) PX0793/1(Shuttered)	PX0695 PX0695/PC PX0783 (Shuttered) PX0716				
	H	2	10A, 250V AC	PX0705	PX0725				

IEC 60320-1	Sheet No:	No Plugs	Current Rating	Rewirable	Side Entry Rewirable
	C13	3	10A, 250V AC	PX0587 PX0588	PX0587/SE
	C15	3	10A, 250V AC	PX0597	
	C19	3	16A, 250V AC	PX0599	

IEC 60320-2-2	Sheet No:	No Plugs	Current Rating	Rewirable	Side Entry Rewirable
	E	3	10A, 250V AC	PX0686	PX0685 PX0686/SE

IEC 60320-1 Standard Sheet C13 Class I

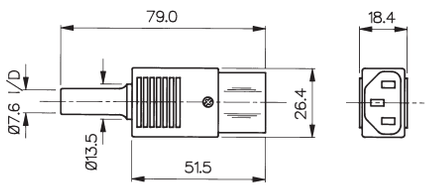
Rewirable Cold Condition

Straight Female Connector



PX0587

- Cable Mounting
- Rewirable
- Screw Terminals
- 10A, 250V AC

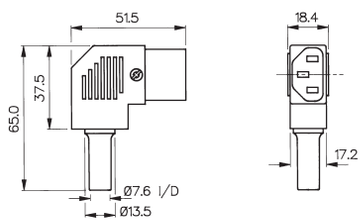


Side Entry Female Connector



PX0587/SE

- Cable Mounting
- Rewirable
- Screw Terminals
- 10A, 250V AC

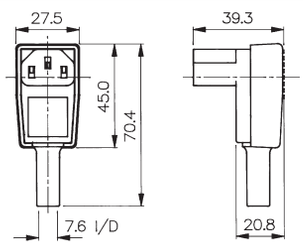


Right Angle Female Connector



PX0588

- Cable Mounting
- Rewirable
- Screw Terminals
- 10A, 250V AC



Specifications	PX0587/CoI	PX0587/SE/CoI	PX0588
Terminations:	Screw Terminals	Screw Terminals	Screw Terminals
Colours:	No suffix (Black), /WH (White), /GY (Grey	No suffix (Black), /WH (White), /GY (Grey)	-
Max. Rating:	10A, 250V AC	10A, 250V AC	10A, 250V AC
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Insulation Resistance:	>10³ MΩ	>10³ MΩ	>10³ MΩ
A.C. Breakdown:	Contact-Contact 4.5kV. (Contacts-Accessible) Parts 4kV	Contact-Contact 4.5kV. (Contacts-Accessible) Parts 4kV	Contact-Contact 5kV. (Contacts-Accessible) Parts 3.5kV
Operating Temp.	–40°C to +70°C	–40°C to +70°C	–40°C to +70°C
Withdrawal Force:	10N (Min.) 50N (Max.)	10N (Min.) 50N (Max.)	10N (Min.) 50N (Max.)
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts	Brass, Clean	Brass, Clean	Brass, Clean
Approvals:			
Accessories / Notes:	VDE and ENEC approval for black and white versions only.	VDE and ENEC approval for black and white versions only.	
Mating Inlets:	PX0575, PX0579, PX0580, PF0001, PF0011, PF0030, PF0033	PX0575, PX0579, PX0580, PF0001, PF0011, PF0030, PF0033	PX0575, PX0579, PX0580, PF0001,PF0011, PF0030, PF0033
RoHS	Compliant	Compliant	Compliant

IEC 60320-1 Standard Sheet C14 Class I

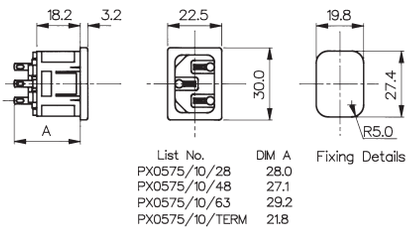
Rewirable Cold Condition

Snap Fit to Panel Inlet



PX0575/10/28

- Fits Panel Thickness 1, 1.5, 2.0 or 3.0mm
- 2.8, 4.8, 6.3mm Tabs or Screw Terminals
- 10A, 250V AC (15A, 250V AC cULus)



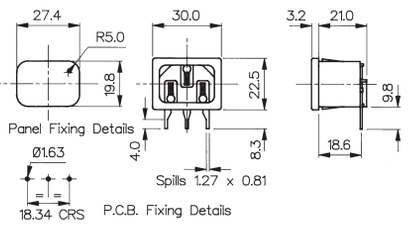
List No.	DIM A
PX0575/10/28	28.0
PX0575/10/48	27.1
PX0575/10/63	29.2
PX0575/10/TERM	21.8

PC Snap Fit to Panel Inlet



PX0575/10/PC

- Fits Panel Thickness 1, 1.5, 2.0 or 3.0mm
- PC Spills
- 10A, 250V AC (15A, 250V AC cULus)



Specifications	PX0575/Fixing/Termination/Colour	PX0575/Fixing/PC/Colour
FIXING(Panel Thickness):	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
TERMINATIONS:	/28 (2.8mm solder), /48 (4.8mm tab)	P.C. Spills
COLOURS:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V AC (cULus 15A, 250V AC)	10A, 250V AC (cULus 15A, 250V AC)
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10³ MΩ	>10³ MΩ
A.C. Breakdown:	Contact-Contact 5kV. Contacts-Panel 5.4kV	Contact-Contact 5kV. Contacts-Panel 5.4kV
Operating Temp. Range:	–40°C to +70°C	–40°C to +70°C
Max. Plug Temp.:	+70°C	+70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass: Plugs, Nickel Plated. Tabs, Tin Plated, Screw Terms, Nickel Plated	Brass: Plugs, Nickel Plated. Spills, Tin Plated
Approvals:		
Accessories / Notes:	P.No. 11328 (See Page 23) VDE and ENEC approval for black versions only.	Standard without cover. With cover add /C to P.No. PX0587, PX0587/SE, PX0588 VDE and ENEC approval for black versions only.
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant

IEC 60320-1 Standard Sheet C14 Class I

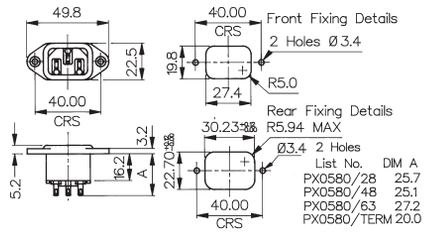
Rewirable Cold Condition

Flange Mount Inlet



PX0580/28

- 2.8, 4.8, 6.3mm Tabs or Screw Terminals
- 10A, 250V AC (15A, 250V AC UL & CSA)

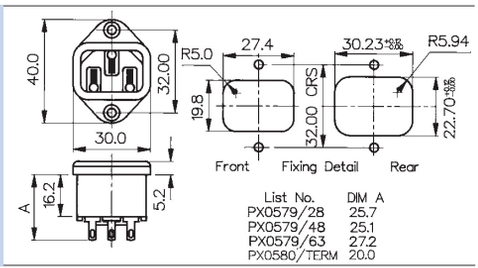


Vertical Flange Mount Inlet



PX0579/28

- 2.8, 4.8, 6.3mm Tabs or Screw Terminals
- 10A, 250V AC (15A, 250V AC UL & CSA)



Specifications	PX0580/Termination/Colour	PX0579/Termination/Colour
FIXING:	Flange	Flange
TERMINATIONS:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab), /TERM (screw)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)
COLOURS:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V AC (UL & CSA 15A, 250V AC)	10A, 250V AC (UL & CSA 15A, 250V AC)
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10³ MΩ	>10³ MΩ
A.C. Breakdown:	Contact-Contact 5kV. Contacts-Panel 10kV	Contact-Contact 5kV. Contacts-Panel 10kV
Operating Temp.	–40°C to +70°C	–40°C to +70°C
Max. Plug Temp.:	+70°C	+70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass: Plugs, Nickel Plated. Tabs, Tin Plated, Screw Terms, Nickel Plated	Brass: Plugs, Nickel Plated. Tabs, Tin Plated
Approvals:		
Accessories / Notes:	P.No. 11328, KT0006 (PX0587 only) (See Pages 21 and 23) VDE and ENEC approval for black versions only.	P.No. 11328 (See Page 23)
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant

IEC 60320-1 Standard Sheet C14 Class I

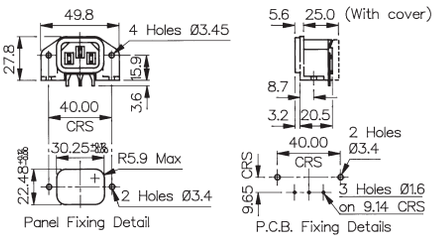
Cold Condition

PC Flange Rear Mount Inlet



PX0580/PC

- Supplied Rear Cover
- PC Spills
- 10A, 250V AC
  (15A, 250V AC UL & CSA)

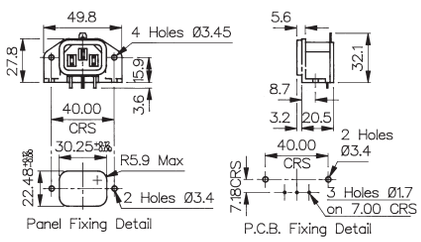


PC Flange Rear Mount Inlet



PX0580/PC/7

- Supplied Rear Cover
- PC Spills
- 4.8mm Top Tab (earth)
- 10A, 250V AC
  (15A, 250V AC UL & CSA)



Specifications	PX0580/PC/Colour	PX0580/PC/7/Colour
FIXING:	P.C.B./Flange	P.C.B./Flange
TERMINATIONS:	P.C. Spills	P.C. Spills
COLOURS:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V AC (UL & CSA 15A, 250V AC)	10A, 250V AC (UL & CSA 15A, 250V AC)
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10³ MΩ	>10³ MΩ
A.C. Breakdown:	Contact-Contact 5.4kV. Contacts-Panel 10kV	Contact-Contact 5.4kV. Contacts-Panel 10kV
Operating Temp. Range: Max. Plug Temp :	–40°C to +70°C +70°C	–40°C to +70°C +70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass: Plugs, Nickel Plated. Spills, Tin Plated	Brass: Plugs, Nickel Plated. Spills, Tin Plated
Approvals:		
Accessories / Notes:	Standard without cover. With cover add /12132 to P.No VDE approvals for black version only	Standard without cover. With cover add /12132 to P.No. VDE approvals for black version only
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant

IEC 60320-1 Standard Sheet C14 Class I

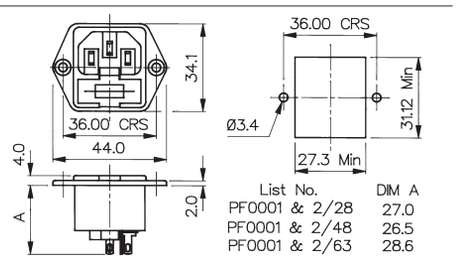
Rewirable Cold Condition (Fused)

Flanged Mount Fused Inlet



PF0001/48 (P.F.1/187) PF0002/28

- Single Fuse 5 x 20mm
- Spare Fuse Facility
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V AC
- Fuse Contacts Isolated (PF0002)

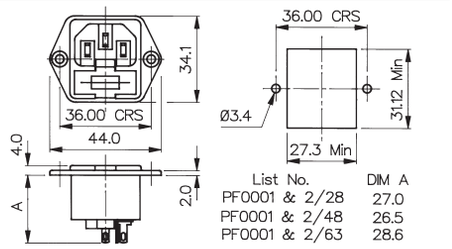


PC Flanged Mount Fused Inlet



PF0001/PC

- Single Fuse 5 x 20mm
- Spare Fuse Facility
- PC Spills - Horizontal
- 10A, 250V AC



Specifications	PF0001/Termination/Colour	PF0001/PC/Colour	PF0002/Termination/Colour
FIXING(Panel):	Flange	P.C.B./Flange	Flange
TERMINATIONS:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)	P.C. Spills	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)
COLOURS:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V AC	10A, 250V AC	10A, 250V AC
Max. Fuse Rating:	2.5W/10A, 250V AC	2.5W/10A, 250V AC	2.5W/10A, 250V AC
Contact Resistance:	<10mΩ (<15mΩ including Fuseholder)	<10mΩ (<15mΩ including Fuseholder)	<10mΩ
Insulation Resistance:	>10³ MΩ	>10³ MΩ	>10³ MΩ
AC Breakdown:	Contact-Contact 5.5kV. Contacts-Panel 4kV	Contact-Contact 5.5kV. Contacts-Panel 4kV	Contact-Contact 5.5kV. Contacts-Panel 4kV
Operating Temp.	–40°C to +70°C	–40°C to +70°C	–40°C to +70°C
Max. Plug Temp.:	+70°C	+70°C	+70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass: Plugs, Nickel Plated. Tabs, Tin Plated	Brass: Plugs, Nickel Plated. Tabs, Tin Plated	Brass: Plugs, Nickel Plated. Tabs, Tin Plated
Approvals:			
Accessories / Notes:	P.No. 11987, KT0009 (See Pages 21 and 23) VDE and ENEC approval for black versions only.	KT0009 (front of panel mounting only) (See Page 21) VDE and ENEC approval for black versions only.	P.No. 11987, KT0009 (See Pages 21 and 23) (Note: Fuse contact isolated) VDE and ENEC approval for black versions only.
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant	Compliant

IEC 60320-1 Standard Sheet C14 Class I

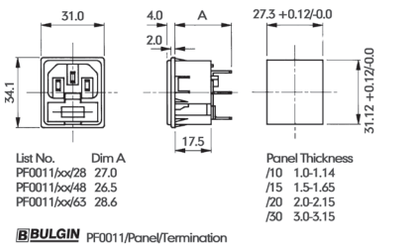
Rewirable Cold Condition (Fused)

Snap Fit to Panel Fused Inlet



PF0011/10/28

- Single Fuse 5 x 20mm
- Spare Fuse Facility
- Panel Thickness 1, 1.5, 2.0 or 3.0mm
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V AC

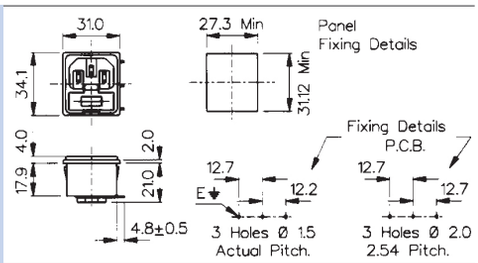


PC Snap Fit to Panel Fused Inlet



PF0011/10/PC

- Single Fuse 5 x 20mm
- Spare Fuse Facility
- Panel Thickness 1, 1.5, 2.0 or 3.0mm
- PC Spills
- 10A, 250V AC



Specifications	PF0011/Fixing/Termination/Colour	PF0011/Fixing/PC/Colour
FIXINGS:	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
TERMINATIONS:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)	P.C. Spills
COLOURS:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V AC	10A, 250V AC
Max. Fuse Rating	2.5W/10A, 250V AC	2.5W/10A, 250V AC
Contact Resistance:	<10mΩ (<15mΩ including Fuseholder)	<10mΩ (<15mΩ including Fuseholder)
Insulation Resistance:	>10³ MΩ	>10³ MΩ
AC Breakdown:	Contact-Contact 5.5kV. Contacts-Panel 4kV	Contact-Contact 5.5kV. Contacts-Panel 4kV
Operating Temp.	–40°C to +70°C	–40°C to +70°C
Max. Plug Temp.:	+70°C	+70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass: Plugs, Nickel Plated. Tabs, Tin Plated	Brass: Plugs, Nickel Plated. Spills, Tin Plated
Approvals:		
Accessories / Notes:	P.No. 11987 (See Page 23) VDE and ENEC approval for black versions only.	VDE and ENEC approval for black versions only.
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant

IEC 60320-1 Standard Sheet C14 Class I

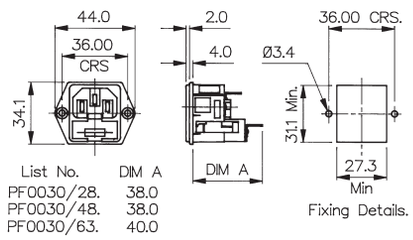
Rewirable Cold Condition (Fused Twin)

Flanged Mount Fused Inlet



PF0030/28

- Twin Fused 5 x 20mm
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V a.c.

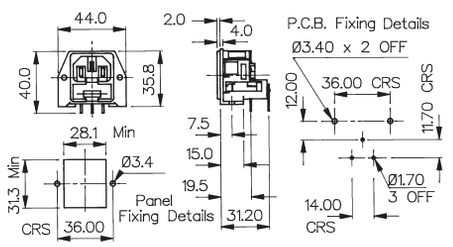


PC Flanged Mount Fused Inlet



PF0030/PC

- Twin Fused 5 x 20mm
- PC Spills
- 10A, 250V a.c.

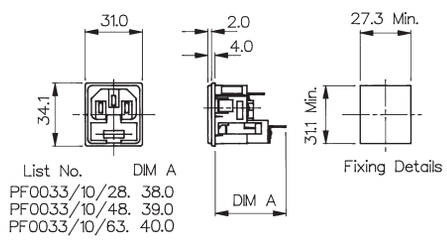


Snap Fit to Panel Fused Inlet



PF0033/10/28

- Twin Fused 5 x 20mm
- Fits Panel Thickness 1.0, 1.5, 2.0 or 3.0mm
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V AC



Specifications	PF0030/Termination	PF0030/PC	PF0033/Fixing/Termination
FIXINGS(Panel):	Flange	P.C.B/Flange	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
TERMINATIONS:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)	P.C. Spills	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)
Max. Rating:	10A, 250V AC	10A, 250V AC	10A, 250V AC
Contact Resistance:	<15mΩ (per Contact)	<15mΩ (per Contact)	<15mΩ (per Contact)
Insulation Resistance:	$>10^4$ MΩ	$>10^4$ MΩ	$>10^4$ MΩ
AC Breakdown:	Contact-Contact 6kV. Contacts-Panel 5kV	Contact-Contact 6kV. Contacts-Panel 5kV	Contact-Contact 6kV. Contacts-Panel 5kV
Max. Dissipation Per Fuse:	2.5W	2.5W	2.5W
Operating Temp.	–20°C to +70°C	–20°C to +70°C	–20°C to +70°C
Max. Plug Temp.:	+70°C	+70°C	+70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass: Plugs, Nickel Plated. Tabs, Tin Plated	Brass: Plugs, Nickel Plated. Tabs, Tin Plated	Brass: Plugs, Nickel Plated. Tabs, Tin Plated
Accessories / Notes:	KT0009 (See Page 21)		
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant	Compliant

IEC 60320-1 Standard Sheet C15 & C16 Class I

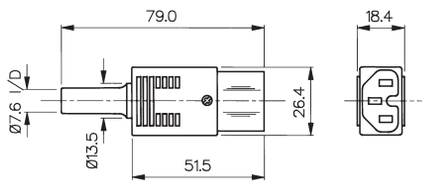
Class 1 Hot Condition

Straight Female Connector



PX0597

- Cable Mounting
- Hot Condition
- Mates with PX0590 and PX0595
- Screw Terminals
- 10A, 250V AC

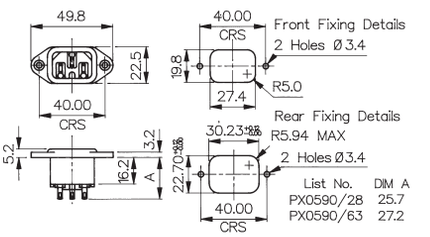


Flange Mount Inlet



PX0590/28

- Hot Condition
- 2.8 or 6.3mm Tabs
- 10A, 250V AC (15A, 250V AC UL & CSA)

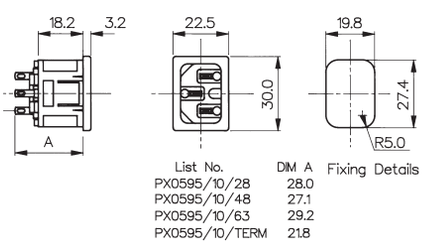


Snap Fit to Panel Inlet



PX0595/10/28

- Hot Condition
- Panel Thickness 1, 1.5, 2.0 or 3.0mm
- 2.8, 4.8, 6.3mm Tabs or Screw Terminals
- 10A, 250V AC (15A, 250V AC cULus)



Specifications	PX0597/Colour	PX0590/Termination/Colour	PX0595/Fixing/Termination/Colour
FIXINGS(Panel):		Flange	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
TERMINATIONS:	Screw Terminals	/28 (2.8mm solder), /63 (6.3mm tab)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab), /TERM (screw)
COLOURS:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V AC	10A, 250V AC (UL & CSA 15A, 250V AC)	10A, 250V AC (cULus 15A, 250V AC)
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Insulation Resistance:	>10³ MΩ	>10³ MΩ	>10³ MΩ
AC Breakdown:	Contact-Contact 4.5kV. Contacts-Accessible Parts 4kV	Contact-Contact 5kV. Contacts-Panel 10kV	Contact-Contact 5kV. Contacts-Panel 5.4kV
Operating Temp.	–40°C to +70°C	–40°C to +70°C	–40°C to +70°C
Max. Plug Temp:		+120°C	+120°C
Withdrawal Force:	10N (Min.) 50N (Max.)		
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass, Clean	Brass, Plugs Nickel Plated. Tabs, Tin Plated	Brass, Plugs Nickel Plated. Tabs, Tin Plated
Approvals:			
Accessories / Notes:	VDE and ENEC approval for black and white versions only.	P.No. 11328, KT0006 (See Pages 21 and 23) VDE and ENEC approval for black versions only.	ENEC10/VDE currenty pending P.No. 11328 (See Page 23) VDE and ENEC approval for black versions only.
Mating Connectors:	PX0590, PX0595	PX0597	PX0597
RoHS	Compliant	Compliant	Compliant

IEC 60320-1 Standard Sheet C18 Class II

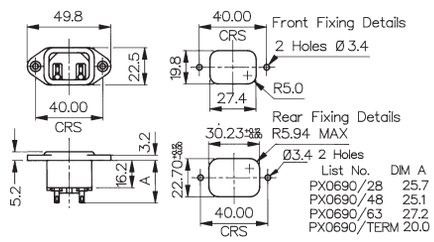
Cold Condition

Flanged Mount Inlet



PX0690/28

- Two Plug Class II (No Earth Plug)
- 2.8, 4.8, 6.3mm Tabs or Screw Terminals
- 10A, 250V AC (15A, 250V AC UL & CSA)

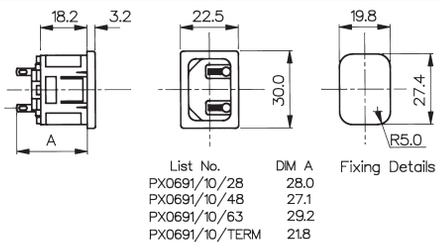


Snap Fit to Panel Inlet



PX0691/10/28

- Two Plug Class II (No Earth Plug)
- Panel Thickness 1, 1.5, 2.0 or 3.0mm
- 2.8, 4.8, 6.3mm Tabs or Screw Terminals
- 10A, 250V AC (15A, 250V AC UL & CSA)

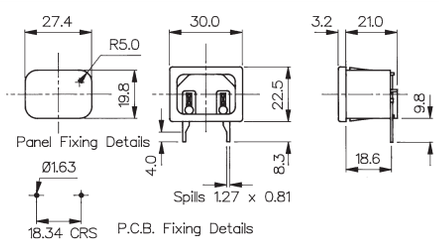


PC Snap Fit to Panel Inlet



PX0691/10/PC

- Two Plug Class II (No Earth Plug)
- Panel Thickness 1, 1.5, 2.0 or 3.0mm
- PC Spills
- 10A, 250V AC (15A, 250V AC UL & CSA)



Specifications	PX0690/Termination/Colour	PX0691/Fixing/Termination/Colour	PX0691/Fixing/PC/Colour
FIXINGS(Panel):	Flange	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
TERMINATIONS:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab), /TERM (screw)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab), /TERM (screw)	P.C. Spills
COLOURS:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V AC (UL & CSA 15A, 250V AC)	10A, 250V AC (UL & CSA 15A, 250V AC)	10A, 250V AC (UL & CSA 15A, 250V AC)
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Insulation Resistance:	>10³ MΩ	>10³ MΩ	>10³ MΩ
AC Breakdown:	Contact-Contact 5kV. Contacts-Panel 10kV	Contact-Contact 5kV. Contacts-Panel 5.4kV	Contact-Contact 5kV. Contacts-Panel 5.4kV
Operating Temp.	–40°C to +70°C	–40°C to +70°C	–40°C to +70°C
Max. Plug Temp.:	+70°C	+70°C	+70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass: Plugs, Nickel Plated. Tabs, Tin Plated, Screw Terms, Nickel Plated	Brass: Plugs, Nickel Plated. Tabs, Tin Plated, Screw Terms, Nickel Plated	Brass: Plugs, Nickel Plated. Spills, Tin Plated
Approvals:	10 VDE c UL us	10 VDE c UL us	10 VDE c UL us
Accessories / Notes:	P.No. 11328 (See Page 23) VDE and ENEC approval for black versions only.	P.No. 11328 (See Page 23) VDE and ENEC approval for black versions only.	Standard without cover. With cover add /C to P.No. VDE and ENEC approval for black versions only.
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant	Compliant

IEC 60320-1 Standard Sheet C18 Class II

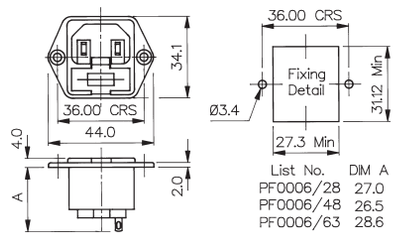
Cold Condition (Fused)

Flanged Mount Fused Inlet



PF0006/28

- Single Fuse 5 x 20mm
- Two Plug Class II (No Earth Plug)
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V AC

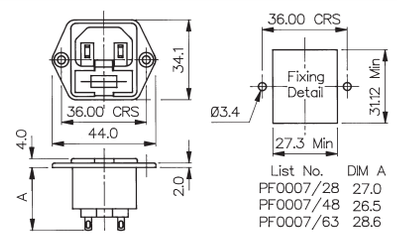


Flanged Mount Fused Inlet



PF0007/28

- Single Fuse 5 x 20mm (Fuse Contacts Isolated)
- Two Plug Class II (No Earth Plug)
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V AC

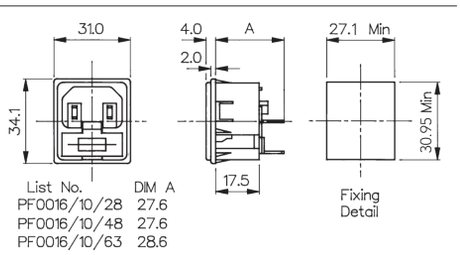


Snap Fit to Panel Fused Inlet



PF0016/10/28

- Single Fuse 5 x 20mm
- Two Plug Class II (No Earth Plug)
- Fits Panel Thickness 1.0, 1.5, 2.0 or 3.0mm
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V AC



Specifications	PF0006/Termination/Colour	PF0007/Termination/Colour	PF0016/Fixing/Termination/Colour
FIXING(Panel):	Flange	Flange	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
TERMINATIONS:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)
COLOURS:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V AC	10A, 250V AC	10A, 250V AC.
Contact Resistance:	<10mΩ (<15mΩ including Fuseholder)	<10mΩ	<10mΩ (<15mΩ including Fuseholder)
Insulation Resistance:	>10³ MΩ	>10³ MΩ	>10³ MΩ
AC Breakdown:	Contact-Contact 5.5kV. Contacts-Panel 4kV	Contact-Contact 5.5kV. Contacts-Panel 4kV	Contact-Contact 5.5kV. Contacts-Panel 4kV
Operating Temp. Max. Plug Temp.: Mouldings: Contacts:	–40°C to +70°C +70°C Nylon, Flammability Rating UL94V-0 Brass: Plugs, Nickel Plated. Tabs, Tin Plated	–40°C to +70°C +70°C Nylon, Flammability Rating UL94V-0 Brass: Plugs, Nickel Plated. Tabs, Tin Plated	–40°C to +70°C +70°C Nylon, Flammability Rating UL94V-0 Brass: Plugs, Nickel Plated. Tabs, Tin Plated
Approvals:	10 c US	10 c US	10 c US
Accessories / Notes:	P.No. 11987 (See Page 23) VDE and ENEC approval for black versions only.	P.No. 11987 (See Page 23) (Note: Fuse contacts isolated) VDE and ENEC approval for black versions only.	P.No. 11987 (See Page 23) VDE and ENEC approval for black versions only.
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant	Compliant

IEC 60320-2-2 Standard Sheet E Class I

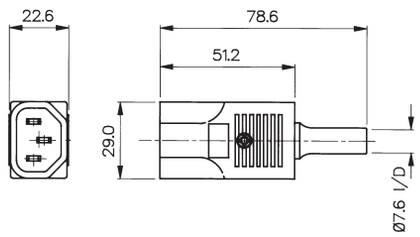
Rewirable

Straight Male Connector



PX0686

- Cable Mounting
- Rewirable
- Screw Terminals
- 10A, 250V AC

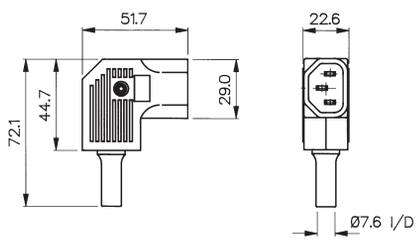


Side Entry Male Connector



PX0686/SE

- Cable Mounting
- Rewirable
- Screw Terminals
- 10A, 250V AC

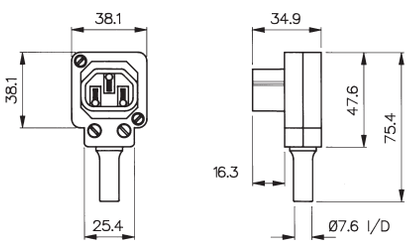


Right Angle Male Connector



PX0685

- Cable Mounting
- Four Position Cable Entry
- Rewirable
- Screw Terminals
- 10A, 250V AC



Specifications	PX0685/Colour	PX0686/Colour	PX0686/SE/Colour
FIXING(Panel):	Screw Terminals	Screw Terminals	Screw Terminals
Max. Rating:	10A, 250V AC	10A, 250V AC	10A, 250V AC
COLOURS:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Insulation Resistance:	$>10^4$ MΩ	$>10^4$ MΩ	$>10^4$ MΩ
AC Breakdown:	Contact-Contact 5.2kV. Contacts-Accessible Parts 6kV	Contact-Contact 5kV. Contacts-Accessible Parts 5kV	Contact-Contact 5kV. Contacts-Accessible Parts 5kV
Operating Temp. Withdrawal Force: Mouldings: Contacts:	–40°C to +70°C 10N (Min.) 50N (Max.) Nylon, Flammability Rating UL94V-0 Brass, Nickel Plated.	–40°C to +70°C 10N (Min.) 50N (Max.) Nylon, Flammability Rating UL94V-0 Brass, Nickel Plated.	–40°C to +70°C 10N (Min.) 50N (Max.) Nylon, Flammability Rating UL94V-0 Brass, Nickel Plated.
Approvals:	c UL us	10 VDE c UL us	10 VDE c UL us
Accessories / Notes:	Unique octagon module allows choice of 4 cable positions	VDE and ENEC approval for black and white versions only.	VDE and ENEC approval for black and white versions only.
Mating Outlets:	PX0675, PX0695, PX0578, PX0783, PX0793, PX0793/1	PX0675, PX0695, PX0578, PX0783, PX0793, PX0793/1, PX0716	PX0675, PX0695, PX0578, PX0783, PX0793, PX0793/1, PX0716
RoHS	Compliant	Compliant	Compliant

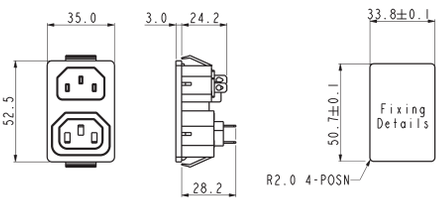
IEC 60320-1 Standard Sheet C14 Class I Cold Condition & IEC 60320-2-2 Standard Sheet F Class I Cold Condition

Snap Fit to Panel Inlet/ Outlet



PX0716/48

- Inlet/Outlet combination
- Panel Thickness 1.2mm
- 4.8mm tabs
- 10A, 250V AC
  (15A, 250V AC UL & CSA)



Specifications	PX0716/Termination
FIXINGS:	Snap fit 1.2mm accommodation
TERMINATIONS:	/48 (4.8mm tab)
Max. Rating:	10A, 250V AC (UL 15A, 125V AC)
Insulation Resistance:	>100MΩ (500V DC., 1 min.)
Dielectric Strength:	2kV (50Hz, 1 min.)
Operating Temp.	–20°C to +70°C
Max. Plug Temp:	+70ºC
Mouldings:	Nylon 66, Flammability Rating UL94V-0
Contacts:	Brass, Tin Plated
Approvals:	c UL us
Accessories / Notes:	
Mating With:	PX0587, PX0587/SE, PX0588, PX0686, PX0686/SE
RoHS	Compliant

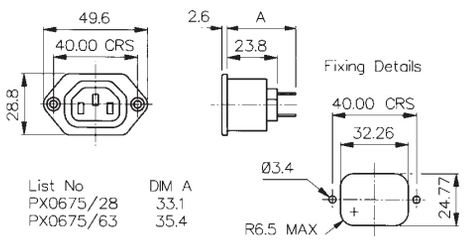
IEC 60320-2-2 Standard Sheet F Class I

Flange Mount Outlet



PX0675/28

- 2.8mm or 6.3mm Tabs
- 10A, 250V AC
  (15A, 250V AC UL & CSA).

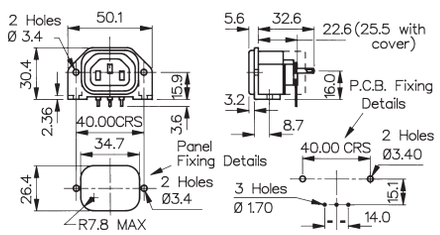


PC Flange Rear Mount Outlet



PX0675/PC

- PC Spills
- 10A, 250V AC
  (15A, 250V AC UL & CSA)



Specifications	PX0675/Termination/Colour	PX0675/PC/Colour
FIXINGS:	Flange	P.C.B./Flange
TERMINATIONS:	/28 (2.8mm solder), /48 (4.8mm tab), /63 (6.3mm tab)	P.C. Spills
COLOURS:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V AC (UL & CSA 15A, 250V AC)	10A, 250V AC (UL & CSA 15A, 250V AC)
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^4$ MΩ	$>10^4$ MΩ
AC Breakdown:	Contact-Contact 7kV. Contacts-Panel 9kV	Contact-Contact 4kV. Contacts-Panel 9kV
Operating Temp.	–40°C to +70°C	–40°C to +70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass, Tin Plated	Brass, Tin Plated
Approvals:	UR approvals does not cover 4.8mm tab option	
Accessories / Notes:	P.No. 12075, KT0006, 14228 (See Pages 21 & 22) VDE and ENEC approval for black versions only.	Standard without cover. With cover add /12599 to P.No., 14228 (see page 22) VDE and ENEC approval for black versions only.
Mates with:	PX0685, PX0686, PX0686/SE	PX0685, PX0686, PX0686/SE
RoHS	Compliant	Compliant

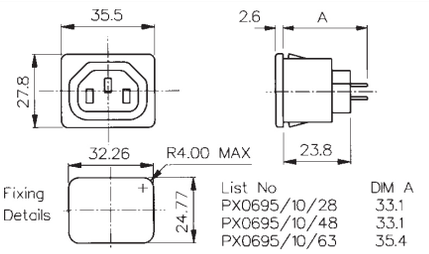
IEC 60320-2-2 Standard Sheet F Class I

Snap Fit to Panel Outlet



PX0695/10/28

- Panel Sizes 1, 1.5, 2.0 or 3.0mm
- 2.8 or 6.3mm Tabs
- 10A, 250V AC (15A, 250V AC UL & CSA)

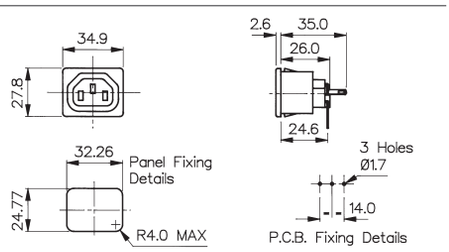


PC Snap Fit to Panel Outlet



PX0695/10/PC

- Panel Thickness 1, 1.5, 2.0 or 3.0mm
- PC Spills
- 10A, 250V AC (15A, 250V AC UL & CSA)



Specifications	PX0695/Fixing/Termination/Colour	PX0695/Fixing/PC/Colour
FIXINGS:	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
TERMINATIONS:	/28 (2.8mm solder), /63 (6.3mm tab)	P.C. Spills
COLOURS:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V AC (UL & CSA 15A, 250V AC)	10A, 250V AC (UL & CSA 15A, 250V AC)
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^4$ MΩ	$>10^4$ MΩ
AC Breakdown:	Contact-Contact 7kV. Contacts-Panel 9kV	Contact-Contact 4kV. Contacts-Panel 9kV
Operating Temp.	–40°C to +70°C	–40°C to +70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass, Tin Plated	Brass, Tin Plated
Approvals:		
Accessories / Notes:	P.No. 12075, 14228 (See Page 22 & 23) VDE and ENEC approval for black versions only.	P.No. 14228 (see page 22) VDE and ENEC approval for black versions only.
Mates with:	PX0685, PX0686, PX0686/SE,	PX0685, PX0686, PX0686/SE,
RoHS	Compliant	Compliant

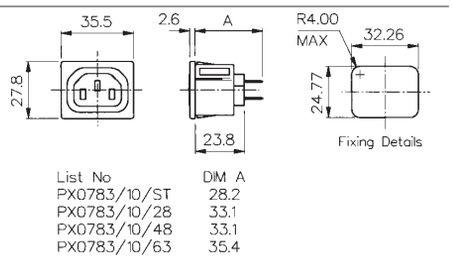
IEC 60320-2-2 Standard Sheet F Class I

Snap Fit to Panel Outlet



PX0783/10/28

- Shuttered
- Panel Thickness 1, 1.5, 2.0 or 3.0mm
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V AC (15A, 250V AC UL & CSA)



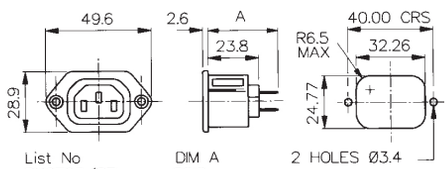
List No	DIM A
PX0783/10/ST	28.2
PX0783/10/28	33.1
PX0783/10/48	33.1
PX0783/10/63	35.4

Flange Mount Outlet



PX0793/28

- Shuttered
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V AC (15A, 250V AC UL & CSA)



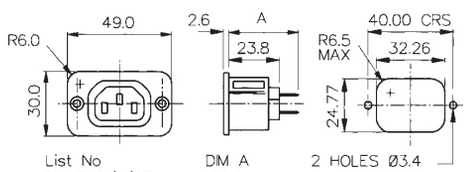
List No	DIM A
PX0793/ST	28.2
PX0793/28	33.1
PX0793/48	33.1
PX0793/63	35.4

PC Snap Fit to Panel Outlet



PX0793/1/Termination

- Shuttered
- Rectangular Flange Mount Outlet
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V AC (15A, 250V AC UL & CSA)



List No	DIM A
PX0793/1/ST	28.2
PX0793/1/28	33.1
PX0793/1/48	33.1
PX0793/1/63	35.4

Specifications	PX0783/Fixing/Termination/Colour	PX0793/Fixing/PC/Colour	PX0793/1/Termination/Colour
FIXINGS:	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)	Flange	Rectangular Flange
TERMINATIONS:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab), /ST (solder)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab), /ST (solder)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab), /ST (solder)
COLOURS:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V AC (UL & CSA 15A, 250V AC)	10A, 250V AC (UL & CSA 15A, 250V AC)	10A, 250V AC (UL & CSA 15A, 250V AC)
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Insulation Resistance:	$>10^4$ MΩ	$>10^4$ MΩ	$>10^4$ MΩ
AC Breakdown:	Contact-Contact 7kV. Contacts-Panel 9kV	Contact-Contact 7kV. Contacts-Panel 9kV	Contact-Contact 7kV. Contacts-Panel 9kV
Operating Temp.	–40°C to +70°C	–40°C to +70°C	–40°C to +70°C
Mouldings:	Nylon, Flammability Rating UL 94V-0	Nylon, Flammability Rating UL 94V-0	Nylon, Flammability Rating UL 94V-0
Contacts:	Brass, Tin Plated	Brass, Tin Plated	Brass, Tin Plated
Approvals:			
Accessories / Notes:	P.No. 12075, 14228 (See Page 22 & 23) VDE and ENEC approval for black versions only.	P.No. 12075, KT0006, 14228 (See Page 21, 22 & 23) VDE and ENEC approval for black versions only.	P.No. 12075, KT0006, 14228 (See Page 21, 22 & 23) VDE and ENEC approval for black versions only.
Mates with:	PX0685, PX0686, PX0686/SE	PX0685, PX0686, PX0686/SE	PX0685, PX0686, PX0686/SE
RoHS	Compliant	Compliant	Compliant

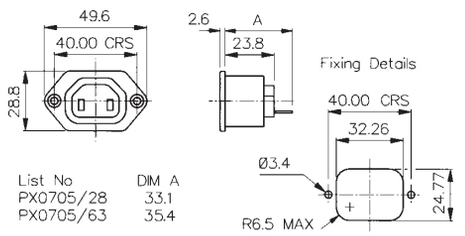
IEC 60320-2-2 Standard Sheet H Class II

Flange Mount Outlet



PX0705/28

- Two Plug Class II (No Earth Plug)
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V AC
  (15A, 250V AC UL & CSA)

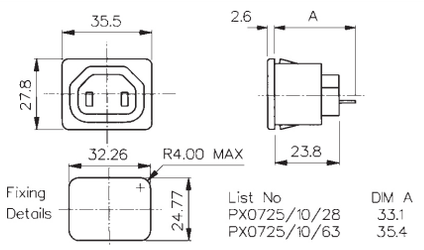


Snap Fit to Panel Outlet



PX0725/10/28

- Two Plug Class II (No Earth Plug)
- Panel Thickness 1, 1.5, 2.0 or 3.0mm
- 2.8, 4.8 or 6.3mm Tabs
- 10A, 250V AC
  (15A, 250V AC UL & CSA)



Specifications	PX0705/Termination/Colour	PX0725/Fixing/Termination/Colour
FIXINGS:	Flange	Snap fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
TERMINATIONS:	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)	/28 (2.8mm solder), /48 (4.8mm tab) /63 (6.3mm tab)
COLOURS:	No suffix (Black), /WH (White), /GY (Grey)	No suffix (Black), /WH (White), /GY (Grey)
Max. Rating:	10A, 250V AC (UL & CSA 15A, 250V AC)	10A, 250V AC (UL & CSA 15A, 250V AC)
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^4$ MΩ	$>10^4$ MΩ
AC Breakdown:	Contact-Contact 4kV. Contacts-Panel 9kV	Contact-Contact 7kV. Contacts-Panel 9kV
Operating Temp.	–40°C to +70°C	–40°C to +70°C
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0
Contacts:	Brass, Tin Plated	Brass, Tin Plated
Approvals:		
Accessories / Notes:	P.No. 12075 (See Page 23) VDE and ENEC approval for black versions only.	P.No. 12075 (See Page 23) VDE and ENEC approval for black versions only.
RoHS	Compliant	Compliant

IEC 60320-2-2 Standard Sheet C19 & C20 Class I

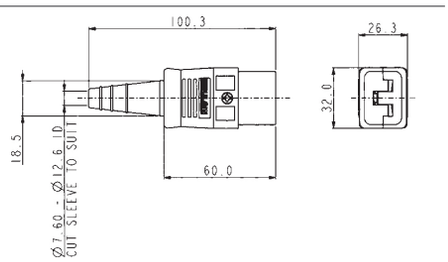
Cold Conditions

C19 Straight Female Cable Connector



PX0599

- Rewirable Screw Terminals
- 16A, 250V AC
- Wire Sizes (max);
  3 x 2.5mm2, 3 x 12AWG
- Overall cable diameter up to 12mm

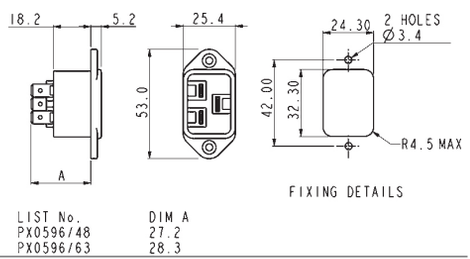


C20 Flange Mount Inlet



PX0596

- 6.3mm or 4.8mm Tabs
- 16A, 250V AC
  (20A, 250V AC UL and cUL)

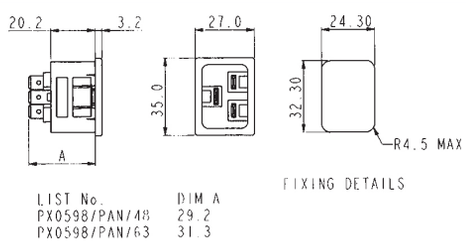


C20 Snap Fit to Panel Inlet



PX0598

- Fits panel Thickness 1, 1.5, 2.0
  or 3.0mm
- 6.3mm or 4.8mm Tabs
- 16A, 250V AC
  (20A, 250V AC UL and cUL)



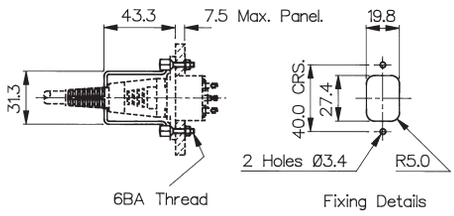
Specifications	PX0599	PX0596/Termination	PX0598/Fixing/Termination
FIXINGS (Panel):		Flange	Snap Fit, /10 (1mm), /15 (1.5mm), /20 (2mm), /30 (3mm)
TERMINATIONS:	Screw Terminals	/63 (6.3mm tab), /48 (4.8mm tab)	/63 (6.3mm tab), /48 (4.8mm tab)
Max. Rating:	16A, 250V AC	16A, 250V AC 20A, 250V AC UL and cUL	16A, 250V AC 20A, 250V AC UL and cUL
Insulation Resistance:	>5MΩ	$>10^6$ MΩ	$>10^6$ MΩ
Dielectric Strength Between contacts:	1.5kV AC	1.5kV AC	1.5kV AC
Between contacts & accessible surfaces:	3kV C	3kV AC	3kV AC
Operating Temp. Range:	–40°C to +70°C	–40°C to +70°C	–40°C to +70°C
Max. Plug Temp.:		70°C	70°C
Withdrawal Force:	15N Min, 60N Max.		
Mouldings:	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL94V-0	Nylon, Flammability Rating UL 94V-0
Contacts:	Brass, Clean	Plugs: Brass, Nickel Plated Tabs: Brass, Tin Plate	Plugs: Brass, Nickel Plated Tabs: Brass, Tin Plated
Approvals:			
Mating Connectors:	C20 Inlets; PX0596 Flange and PX0598 Snapfit	PX0599 Rewirable Connector	PX0599 Rewirable Connector
Accessories:		KT0012, P.No. 14064 (see Pages 21 & 23)	P.No. 14064 (see Page 23)
RoHS	Compliant	Compliant	Compliant

Retaining Clip

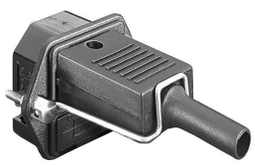


KT0006
(Shown with PX0580 & PX0587)

- Prevents Accidental Removal
- Fits flanged inlets

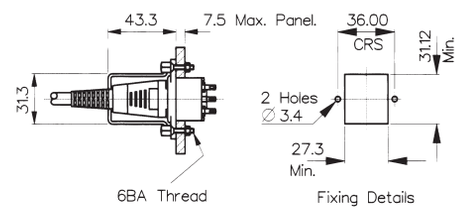


Retaining Clip



KT0009
(Shown with PF0001 & PX0587)

- Prevents Accidental Removal
- Fits fused flanged inlets)

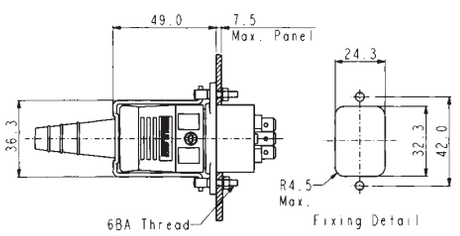


Retaining Clip



KT0012
(Shown with PX0596 & PX0599)

- Prevents Accidental Removal
- For use with PX0596 flanged inlet and PX0599 connector

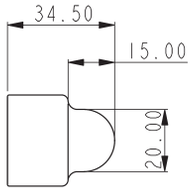


Specifications	KT0006	KT0009	KT0012
	Retaining Clip to prevent accidental removal of connector. Fits: PX0580 + PX0587 PX0590 + PX0597 PX0690 + PX0587 PX0675 + PX0686 PX0793 + PX0686 PX0793/1 + PX0686	Retaining Clip to prevent accidental removal of connector. Fits: PF0001+ PX0587 PF0001/PC +PX0587 PF0002 + PX0587 PF0030 + PX0587	Retaining Clip to prevent accidental removal of connector. Fits: PX0596 + PX0599
Material:	Clip: Stainless Steel, other parts Brass, Nickel Plated	Clip: Stainless Steel, other parts Brass, Nickel Plated	Clip: Stainless Steel, other parts Brass, Nickel Plated
RoHS	Compliant	Compliant	Compliant

Blanking Cover





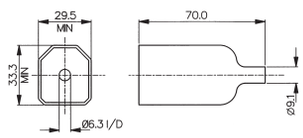


PNo 14228

- Blanking covers
- Protects Front of Outlet Connector
- Protects Against Accidental Electric Shock

Insulation Boot





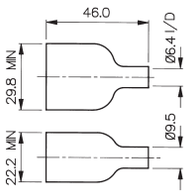
PNo 14317

- PVC Insulation Boots
- Protects Rear of Connector
- Protects Against Accidental Electric Shock

Specifications	P.No. 14228	P.No. 14340	P.No. 14317
	Blanking cover for PX0578, PX0675, PX0695, PX0783, PX0793, PX0716	Insulation boot for PS20, PS21, PS25, PS26	Insulation boot for PF0030, PF0033 (except /PC versions)
Operating Temp:	–40°C to +70°C	–20°C to +60°C	–20°C to +60°C
Max. Working Voltage:	250V AC	250V AC	250V AC
Flash Tested:	2kV AC	2kV AC	2kV AC
Material:	Nylon	P.V.C.	P.V.C.
Flammability Rating:	UL94V-0	UL94V-0	UL94V-0
RoHS	Compliant	Compliant	Compliant

Insulation Boot

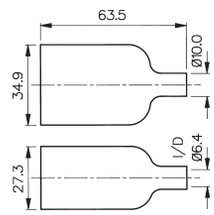




PNo 11328

Insulation Boot

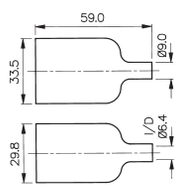




PNo 12075

Insulation Boot

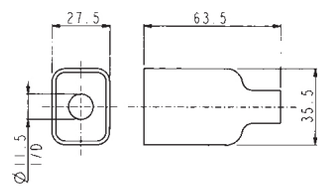




PNo 11987

Insulation Boot





PNo 14064

- PVC Insulation Boots
- Protects Rear of Connector
- Protects Against Accidental Electric Shock

Specifications	P.No. 11328	P.No. 11987	P.No. 12075	P.No. 14064
	Insulation boot for PX0575, PX0579, PX0580 PX0590, PX0595	Insulation boot for PF range PF0001, PF0002, PF0006, PF0007, PF0011, PF0016 (Except /PC versions)	Insulation boot for PX0675, PX0695, PX0705, PX0725, PX0783, PX0793, PX0793/1 (Except /PC versions)	Insulation boot for PX0596, PX0598
Operating Temp:	–20°C to +60°C	–20°C to +60°C	–20°C to +60°C	–20°C to +60°C
Max. Working Voltage:	250V AC	250V AC	250V AC	250V AC
Flash Tested:	2kV AC	2kV AC	2kV AC	2kV AC
Material:	P.V.C.	P.V.C.	P.V.C.	P.V.C.
Flammability Rating:	UL94V-0	UL94V-0	UL94V-0	UL94V-0
RoHS	Compliant	Compliant	Compliant	Compliant

Distribution Units have combinations of four, five or six outlets together with neon indicator, fuse and switch options. The three sizes are available in various combinations and, other than the compact version, all have shuttered outlets. The larger enclosed versions are also available with EMI filtering.

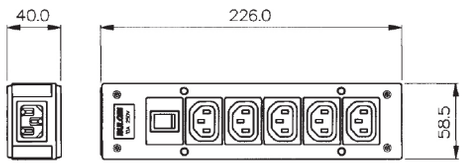


IEC Distribution Units



PXD301/050/01/1

- Five Shuttered Outlets
- 5 x 20mm Fuseholder
- Neon Indicator
- Filtered or Non-filtered
- EN60320 Inlet
- 10A, 250V AC

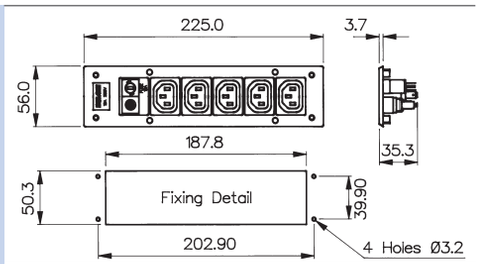


IEC Panel Mount Distribution Unit



PXD100/050/01/1

- Five Shuttered Outlets
- 5 x 20mm Fuseholder
- Neon Indicator
- Screw Fit to Panel
- 10A, 250V AC

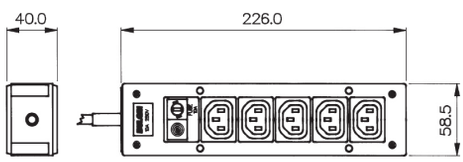


IEC Distribution Unit



PXD303/050/01/1
PXD306/050/01/1

- Five Shuttered Outlets
- 5 x 20mm Fuseholder
- Neon Indicator
- Filtered or Non-filtered
- 2 Metre Cable with BS1363 Plug
- 10A, 250V AC



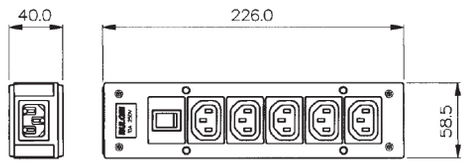
Part No.	Inlet	Outlet	EMI Filter	Neon Indicator	Fuse	Illuminated Switch
Panel Style:						
PXD100/050/01/1		5 Shuttered		1	1	
Box Style:						
PXD301/050/01/1	1	5 Shuttered		1	1	
PXD301/050/07/1	1	5 Shuttered				Red
PXD301/050/08/1	1	5 Shuttered	⬢			Green
PXD301/550/01/1	1	5 Shuttered	⬢	1	1	
PXD301/550/07/1	1	5 Shuttered	⬢			Red
PXD301/550/08/1	1	5 Shuttered				Green
PXD303/050/01/1	2m cable with BS1363 plug	5 Shuttered		1	1	
PXD303/050/07/1	2m cable with BS1363 plug	5 Shuttered				Red
PXD303/050/08/1	2m cable with BS1363 plug	5 Shuttered	⬢			Green
PXD303/550/01/1	2m cable with BS1363 plug	5 Shuttered	⬢	1	1	
PXD303/550/07/1	2m cable with BS1363 plug	5 Shuttered	⬢			Red
PXD303/550/08/1	2m cable with BS1363 plug	5 Shuttered				Green
PXD306/050/01/1	2m cable with CEE7 Sheet VII plug	5 Shuttered		1	1	

IEC Distribution Unit



PXD301/050/07/1

- Five Shuttered Outlets
- Illuminated Switch
- Filtered or Non-Filtered
- EN60320 Inlet
- 10A, 250V AC

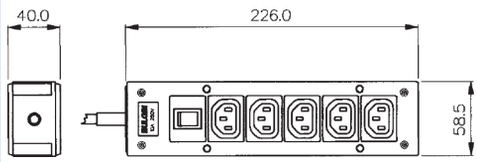


IEC Distribution Unit



PXD303/050/08/1

- Five Shuttered Outlets
- Illuminated Switch
- Filtered or Non-Filtered
- 2m Cable and BS1363 plug
- 10A, 250V AC



Specifications

Mouldings:	Thermoplastic
Housing:	ABS
Connectors:	Nylon
Contacts:	Outlets: Brass, Tin Plated Inlets: Brass, Nickel Plated
Voltage Rating:	250V AC 50/60Hz
Current Rating:	10A
Proof Voltage:	2kV
Temp. Range:	–5°C to +60°C
Mating Connectors:	PX0686, PX0686/SE
RoHS	Compliant

Filter

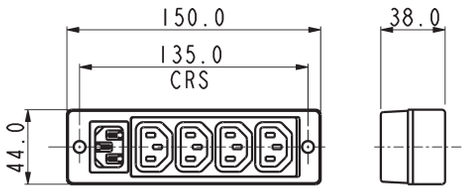
Max. Earth Leakage Current:	<0.35mA (at 250V, 50Hz)
Capacitor	2 x 2.2nF (Y), 1 x 15nF (X)
Inductance:	2 x 0.35mH
Fuse:	5 x 20mm, 10A (ceramic HRC type, IEC 127)

Compact Distribution Unit



PXD200

- Four Outlets
- EN60320 Inlet
- 10A, 250V AC
- cULus Approval

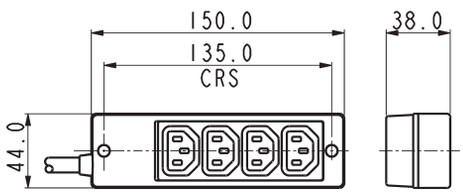


Compact Distribution Unit



PXD201

- Four Outlets
- 2m Cable with BS1363 connector, Schuko connector (CEE7) or NEMA 5/15 connector
- 10A, 250V AC



Specifications

Mouldings:	Thermoplastic
Housing:	ABS, UL94V-0
Connectors:	BS1363, CEE7, NEMA 5/15
Contacts:	Outlets: Brass, Tin Plated Inlets: Brass, Nickel Plated
Voltage Rating:	250V AC 50/60Hz
Current Rating:	10A
Proof Voltage:	2kV
Temp. Range:	–5°C to +60°C
Approvals	c UL us Listed (PXD200) UL File E330132
RoHS	Compliant

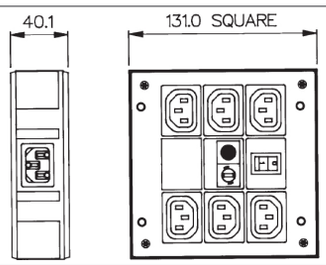
Part No.	Inlet	Outlet
PXD200	1	4
PXD201	2m cable with BS 1363 plug	4

Compact Distribution Unit



PXD701/061/10/1

- Six Shuttered Outlets
- 5 x 20mm Fuseholder
- Filtered or Non Filtered
- Switch, Fuse, Neon Indicator
- With IEC Inlet
- 10A, 250V AC

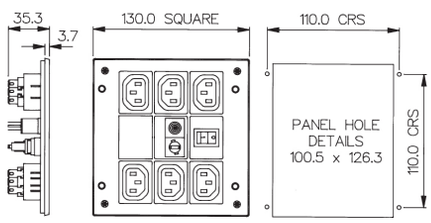


IEC Mount Distribution Unit



PXD500/061/10/1

- Six Shuttered Outlets
- 5 x 20mm Fuseholder
- Switch, Fuse, Neon Indicator
- Screw Fit to Panel
- 10A, 250V

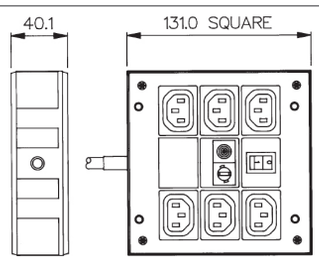


Compact Distribution Unit



PXD703/061/10/1
PXD706/061/10/1

- Six Shuttered Outlets
- 5 x 20mm Fuseholder
- Filtered or Non Filtered
- Switch, Fuse, Neon Indicator
- 2 Metre Cable with BS1363 or CEE7 Plug
- 10A, 250V



Specifications

Mouldings:	Thermoplastic
Housing:	ABS
Connectors:	Nylon
Contacts:	Outlets: Brass, Tin Plated Inlets: Brass, Nickel Plated
Voltage Rating:	250V AC 50/60Hz
Current Rating:	10A
Proof Voltage:	2kV
Temp. Range:	–5°C to +60°C
RoHS	Compliant

Part No.	Inlet	Outlet	EMI Filter	Switch	Fuse	Neon Indicator
Panel Style: PXD500/061/10/1		6 Shuttered		1	1	1
Box Style: PXD701/061/10/1	1	6 Shuttered		1	1	1
PXD701/561/10/1	1	6 Shuttered	⬢	1	1	1
PXD703/061/10/1	2m cable with BS 1363 plug	6 Shuttered		1	1	1
PXD703/561/10/1	2m cable with BS 1363 plug	6 Shuttered	⬢	1	1	1
PXD706/061/10/1	2m cable with CEE7 Sheet VII plug	6 Shuttered		1	1	1

Filter

Max. Earth Leakage Current:	<0.35mA (at 250V, 50Hz)
Capacitor	2 x 2.2nF (Y), 1 x 15nF (X)
Inductance:	2 x 0.35mH
Fuse:	5 x 20mm, 10A (ceramic HRC type, IEC 127)

Power Entry Modules



With over 26,000 combinations Bulgin's mains power entry modules offer a very adaptable and flexible solution to panel design. Power entry modules allow combinations of mains inlets and outlets, filtered inlets, switches, fuseholders, voltage selectors and indicators mounted in either horizontal or vertical format bezels ready for quick snap-fit assembly. The compact design occupies the minimum of panel area and a single rectangular mounting hole, offering easy installation for this mains power entry module.

Our range offers a flange fixing alternative for designers who prefer the security of screw fixing. All types and variations are available through Bulgin's extensive distribution network.

Components used in Power Entry Modules.

Note: Components are Approved Individually (where applicable). Please see individual component pages for full specifications.

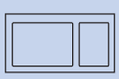
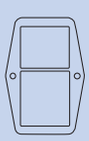
Overview of Power Entry Modules









	Inlets				Outlets	Inlet/ Outlet Combinations	
Style	**C14**	**C14 Fused**	**C16**	**C20**	**Sheet F**	**C14**	**C14 Fused**
Snap to Panel Vertical 	With Single Contact switch Page 495 With other components Pages 496, 497, 498	With Single Contact switch Page 493 With Double Contact Switch Page 494	With Single Contact switch Page 495 With other components Pages 496, 497, 498	With Single Contact switch Page 499	With Single Contact switch Page 501	With other components Page 500	
Snap to Panel Horizontal 	Mini Bezel With Single Contact Switch Page 507 Mini Bezel With Double Contact Switch Page 507	With Single Contact switch Page 502 With Double Contact Switch Page 503				With Single Contact switch Page 504	With Double Contact switch Page 505 No additional components Page 506
Flange Mount - Vertical 		With Single Contact switch Page 508 With Double Contact switch Page 509					

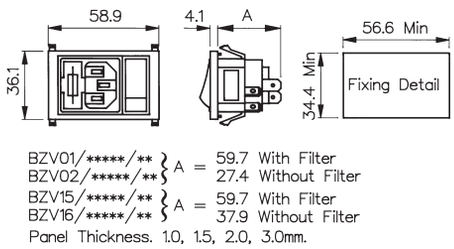
C14 IEC Fused Inlet - Vertical

Vertical Module Arrangement



BZV01/Z0000/01

- Fused Inlet with 2.8mm or 6.3mm tags
- Single Contact Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

BZV XX	/	XXXXX	/	XX

Type of Inlet / Outlet

Single Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:
01 = PF0011/63
02 = PF0011/28

Twin Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:
15 = PF0033/63
16 = PF0033/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered
Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see pages 511 - 512
E.g. BZV01/A0620/01

Filtered or Non Filtered Inlet

Single Contact Switch:
01 = S.P. Switch

Single Contact Neon Switch:
02 = S.P. Red Neon Switch
08 = S.P. Green Neon Switch

Neon Indicator:
03 = Red Neon Indicator

Single Contact High Inrush Switch:
46 = S.P. High Inrush Switch

Single Contact Switch Marked I/O:
69 = S.P. Switch (I/O)

Single Contact Neon Switch Marked (I/O):
71 = S.P. Red Neon Switch (I/O)
74 = S.P. Green Neon Switch (I/O)

Single Contact High Inrush Switch Marked (I/O):
98 = S.P. High Inrush Switch (I/O)

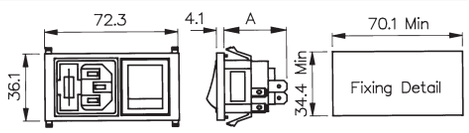
C14 IEC Fused Inlet - Vertical

Vertical Module Arrangement



BZV01/Z0000/10

- Fused Inlet with 2.8mm or 6.3mm tags
- Double Contact Switch or
- Indicator Variations
- Filtered Inlet Option
- Options of I/O marked switches



BZV01/*****/** } A = 59.7 With Filter
BZV02/*****/** } A = 27.4 Without Filter
BZV15/*****/** } A = 59.7 With Filter
BZV16/*****/** } A = 37.9 Without Filter

Panel Thickness. 1.0, 1.5, 2.0, 3.0mm.

How to order -

BZV XX / XXXXX / XX

Type of Inlet / Outlet

Single Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:
01 = PF0011/63
02 = PF0011/28

Twin Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:
15 = PF0033/63
16 = PF0033/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see pages 511 - 512
E.g. BZV01/A0620/10

Combination of Other Components

Neon Indicator:
D3 = Red Neon Indicator

Double Contact Switch:
10 = D.P. Switch

Double Contact Neon Switch:
11 = D.P. Red Neon Switch
12 = D.P. Green Neon Switch

Double Contact High Inrush Switch:
13 = D.P. High Inrush Switch

Double Contact Switch Marked I/O:
70 = D.P. Switch (I/O)

Double Contact Neon Switch Marked (I/O):
76 = D.P. Red Neon Switch (I/O)
77 = D.P. Green Neon Switch (I/O)

Double Contact High Inrush Switch Marked (I/O):

78 = D.P. High Inrush Switch (I/O)
B1 = D.P. High Inrush Green Neon Switch (I/O)

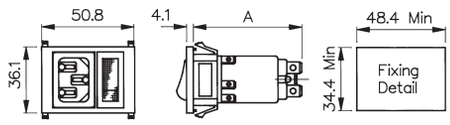
C14 and C16 IEC Inlet - Vertical

Vertical Module Arrangement



BZV03/Z0000/02

- Inlet with 2.8mm or 6.3mm tags
- Single Contact Switch or Neon Indicator Variations
- Filtered Inlet Option
- Options of I/O marked switches
- Non Fused



BZV03, BZV04/*****/** A = 62.5 With Filter
28.1 Without Filter

BZV05, BZV06/*****/** A = 28.1

Panel Thickness. 1.0, 1.5, 2.0, 3.0mm.

How to order -

BZV XX	/	XXXXX	/	XX

Type of Inlet / Outlet

C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:
03 = PX0575/63
04 = PX0575/28
C16 Power Inlet (hot condition), 6.3 or 2.8mm tabs:
05 = PX0595/63
06 = PX0595/28

Please note type 05 and 06 are not available in filtered version

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see page 510
E.g. BZV03/A0120/02

Combination of Other Components

Single Contact Switch:
01 = S.P. Switch

Single Contact Neon Switch:
02 = S.P. Red Neon Switch
08 = S.P. Green Neon Switch

Neon Indicator:
03 = Red Neon Indicator
Single Contact High Inrush Switch:
46 = S.P. High Inrush Switch

Single Contact Switch Marked I/O:
69 = S.P. Switch (I/O)

Single Contact Neon Switch Marked (I/O):
71 = S.P. Red Neon Switch (I/O)
74 = S.P. Green Neon Switch (I/O)

Single Contact High Inrush Switch Marked (I/O):

98 = S.P. High Inrush Switch (I/O)

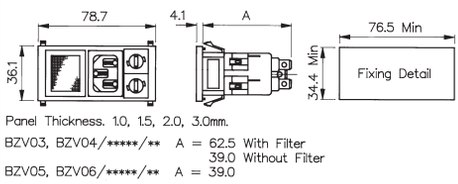
C14 and C16 IEC Inlet - Vertical

Vertical Module Arrangement



BZV03/Z0000/07

- Inlet with 2.8mm or 6.3mm tags
- Double Contact Switch/ Fuseholder/Indicator/ Voltage Selectors/ Blanking Plate
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

BZV XX / XXXXX / XX

Type of Inlet / Outlet

C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:

03 = PX0575/63
04 = PX0575/28

C16 Power Inlet (hot condition), 6.3 or 2.8mm tabs:

05 = PX0595/63
06 = PX0595/28

Please note type 05 and 06 are not available in filtered version

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see page 510
E.g. BZV03/A0120/07

Combination of Other Components

Twin Fuseholder and Double Contact Switch:
05 = 2 x FX0359 + D.P. Switch

Twin Fuseholder and Double Contact Neon Switch:
06 = 2 x FX0359 + D.P. Red Neon Switch
09 = 2 x FX0359 + D.P. Green Neon Switch
19 = 2 x FX0359 + D.P. Red Neon Switch 125V

Twin Fuseholder and Neon Indicator:
07 = 2 x FX0359 + Red Neon Indicator

Voltage Selector, Fuseholder and Double Contact Switch:
15 = 1 x VS0001 + 1 x FX0359 + Double Contact switch

Voltage Selector, Fuseholder and Double Contact Neon Switch:
16 = 1 x VS0001 + 1 x FX0359 + D.P. Red Neon Switch
18 = 1 x VS0001 + 1 x FX0359 + D.P. Green Neon Switch

Voltage Selector, Fuseholder and Neon Indicator:
17 = 1 x VS0001 + 1 x FX0359 + Red Neon Indicator

Twin Fuseholder and Double Contact High Inrush Switch:
20 = 2 x FX0359 + D.P. High Inrush Switch

Twin Fuseholder and Double Contact High Inrush Neon Switch:
21 = 2 x FX0359 + 1 x D.P. High Inrush Green Neon Switch
22 = 2 x FX0359 + 1 x D.P. High Inrush Red Neon Switch

Voltage Selector, Neon Indicator and Double Contact Switch
25 = 1 x VS0001 + 1 x DX0928/110V/Red + D.P. Switch
26 = 1 x VS0001 + 1 x DX0928/110V/Green + D.P. Switch
27 = 1 x VS0001 + 1 x DX0928/250V/Red + D.P. Switch
28 = 1 x VS0001 + 1 x DX0928/250V/Green + D.P. Switch

Voltage Selector, Neon Indicator and Double Contact High Inrush Switch:
29 = 1 x VS0001 + 1 x DX0928/250V/Red + D.P. High Inrush Switch
30 = 1 x VS0001 + 1 x DX0928/250V/Green + D.P. High Inrush Switch

Fuseholder, Neon Indicator and Double Contact Switch
31 = 1 x FX0359 + 1 x DX0928/110V/Red + D.P. Switch
32 = 1 x FX0359 + 1 x DX0928/110V/Green + D.P. Switch
33 = 1 x FX0359 + 1 x DX0928/250V/Red + D.P. Switch
34 = 1 x Fx0359 + 1 x DX0928/250V/Green + D.P. Switch

Fuseholder, Neon Indicator and Double Contact High Inrush Switch:
35 = 1 x FX0359 + 1 x DX0928/250V/Red + D.P. High Inrush Switch
36 = 1 x FX0359 + 1 x DX0928/250V/Green + D.P. High Inrush Switch

Fuseholder, Blanking Plate and Double Contact High Inrush Neon Switch:
47 = 1 x FX0359 + 1 x Blanking Plate (Right) + D.P. High Inrush Green Neon Switch

Fuseholder, Blanking Plate and Double Contact Switch:
48 = 1 x FX0359 + 1 x Blanking Plate (Right) + D.P. Switch

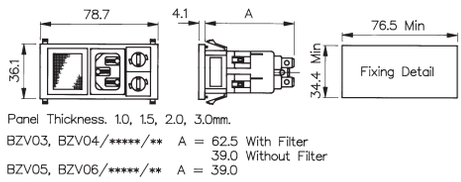
C14 and C16 IEC Inlet - Vertical

Vertical Module Arrangement



BZV03/Z0000/07

- Inlet with 2.8mm or 6.3mm tags
- Double Contact Switch/
- Fuseholder/Indicator/ Voltage Selectors/ Blanking Plate
- Filtered Inlet Option Options of I/O marked switches



Panel Thickness. 1.0, 1.5, 2.0, 3.0mm.
BZV03, BZV04/*****/** A = 62.5 With Filter
39.0 Without Filter
BZV05, BZV06/*****/** A = 39.0

How to order -

BZV XX / XXXXX / XX

Type of Inlet / Outlet

C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:

03 = PX0575/63
04 = PX0575/28

C16 Power Inlet (hot condition), 6.3 or 2.8mm tabs:

05 = PX0595/63
06 = PX0595/28

Please note type 05 and 06 are not available in filtered version

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see page 510
E.g. BZV03/A0120/07

Combination of Other Components

Twin Fuseholder and Double Contact Switch Marked (I/O):
72 = 2 x FX0359 + D.P. Switch (I/O)

Twin Fuseholder and Double Contact Neon Switch Marked (I/O):
73 = 2 x FX0359 + D.P. Red Neon Switch (I/O)
75 = 2 x FX0359 + D.P. Green Neon Switch(I/O)
82 = 2 x FX0359 + D.P. Red Neon Switch 125V(I/O)

Voltage Selector, Fuseholder and Double Contact Switch Marked (I/O):
79 = 1 x VS0001 + 1 x FX0359 + Double Contact switch (I/O)

Voltage Selector, Fuseholder and Double Contact Neon Switch Marked (I/O):
80 = 1 x VS0001 + 1 x FX0359 + D.P. Red Neon Switch (I/O)
81 = 1 x VS0001 + 1 x FX0359 + D.P. Green Neon Switch (I/O)

Twin Fuseholder and Double Contact High Inrush Switch Marked (I/O):
83 = 2 x FX0359 + D.P. High Inrush Switch (I/O)

Twin Fuseholder and Double Contact High Inrush Neon Switch Marked (I/O):
84 = 2 x FX0359 + 1 x D.P. High Inrush Green Neon Switch (I/O)
85 = 2 x FX0359 + 1 x D.P. High Inrush Red Neon Switch (I/O)

Voltage Selector, Neon Indicator and Double Contact Switch Marked (I/O):
86 = 1 x VS0001 + 1 x DX0928/110V/Red + D.P. Switch (I/O)
87 = 1 x VS0001 + 1 x DX0928/110V/Green + D.P. Switch (I/O)
88 = 1 x VS0001 + 1 x DX0928/250V/Red + D.P. Switch (I/O)
89 = 1 x VS0001 + 1 x DX0928/250V/Green + D.P. Switch (I/O)

Voltage Selector, Neon Indicator and Double Contact High Inrush Switch Marked (I/O):
90 = 1 x VS0001 + 1 x DX0928/250V/Red + D.P. High Inrush Switch(I/O)
91 = 1 x VS0001 + 1 x DX0928/250V/Green + D.P. High Inrush Switch(I/O)

Fuseholder, Neon Indicator and Double Contact Switch Marked (I/O)
92 = 1 x FX0359 + 1 x DX0928/110V/Red + D.P. Switch (I/O)
93 = 1 x FX0359 + 1 x DX0928/110V/Green + D.P. Switch (I/O)
94 = 1 x FX0359 + 1 x DX0928/250V/Red + D.P. Switch (I/O)
95 = 1 x FX0359 + 1 x DX0928/250V/Green + D.P. Switch (I/O)

Fuseholder, Neon Indicator and Double Contact High Inrush Switch Marked (I/O):
96 = 1 x FX0359 + 1 x DX0928/250V/Red + D.P. High Inrush Switch (I/O)
97 = 1 x FX0359 + 1 x DX0928/250V/Green + D.P. High Inrush Switch (I/O)

Fuseholder, Blanking Plate and Double Contact High Inrush Neon Switch Marked (I/O):
99 = 1 x FX0359 + 1 x Blanking Plate (Right) + D.P. High Inrush Green Neon Switch (I/O)

Fuseholder, Blanking Plate and Double Contact Switch Marked (I/O):
A0 = 1 x FX0359 + 1 x Blanking Plate (Right) + D.P. Switch (I/O)
B2 = 1 x VS0002 + 1 x Blanking Plate
B3 = 1 x FX0359 + 1 x Blanking Plate + D.P. High Inrush Switch (I/O)
B5 = 1 x VS0001 + 1 x Blanking Plate + D.P Switch (I/O)

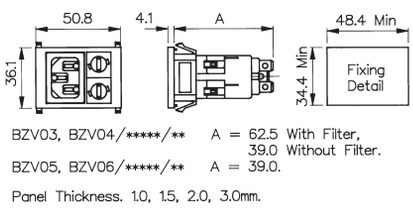
C14 and C16 IEC Inlet - Vertical

Vertical Module Arrangement



BZV04/Z0000/04

- Inlet with 2.8mm or 6.3mm tags
- Fuseholder/Voltage Selector/Indicator options/Blanking plate



How to order -

BZV XX	/	XXXXX	/	XX

Type of Inlet / Outlet

C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:
03 = PX0575/63
04 = PX0575/28

C16 Power Inlet (hot condition), 6.3 or 2.8mm tabs:
05 = PX0595/63
06 = PX0595/28

Please note type 05 and 06 are not available in filtered version

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see page 510
E.g. BZV03/A0120/04

Combination of Other Components

Twin Fuseholder:
04 = 2 x FX0359

Voltage Selector and Fuseholder:
14 = 1 x VS0001 + 1 x FX0359

Voltage selector and Neon:
37 = 1 x VS0001 + DX0928/110V/Red
38 = 1 x VS0001 + DX0928/110V/Green
39 = 1 x VS0001 + DX0928/250V/Red
40 = 1 x VS0001 + DX0928/250V/Green

Fuseholder and Neon:
41 = 1 x FX0359 + DX0928/110V/Red
42 = 1 x FX0359 + DX0928/110V/Green
43 = 1 x FX0359 + DX0928/250V/Red
44 = 1 x FX0359 + DX0928/250V/Green

Fuseholder and Blanking Plate:
45 = 1 x FX0359 + Blanking Plate

Voltage Selector and Blanking Plate:
B2 = 1 x VS0001 + Blanking Plate

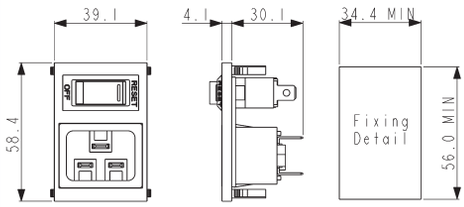
C20 IEC Inlet - Vertical

Vertical Module Arrangement



BZV49/Z0000/69

- Inlet with 4.8mm or 6.3mm tags
- Single Contact Switch marked I/O
- Illuminated, red or green, switches
- High inrush non-illuminated switch



How to order -

BZV XX	/	XXXXX	/	XX

Type of Inlet / Outlet

C20 Power Inlet (cold condition), 4.8 or 6.3mm tabs:

49 = PX0598/63
50 = PX0598/48

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Combination of Other Components

Single Contact Switch:
01 = S.P. Switch

Single Contact Switch Marked (I/O):
69 = S.P. Switch (I/O)

Single Contact Illuminated Switch:
02 = S.P. Illuminated Red
08 = S.P. Illuminated Green

Single Contact Non-illuminated High Inrush Switch Marked I/O:

98 = S.P. High Inrush Switch (I/O)
Single Contact Illuminated (Red or Green 250v Neon) Switch Marked I/O:

71 = S.P. Switch Illuminated Red (I/O)
74 = S.P. Switch Illuminated Green (I/O)

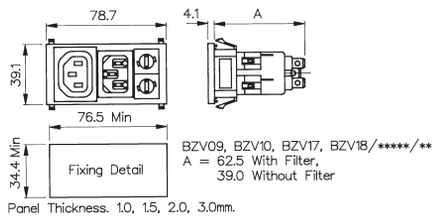
C14 IEC Inlet/Sheet F IEC Outlet - Vertical

Vertical Module Arrangement



BZV09/Z0000/04

- Inlet/Outlet Combination
- 2.8mm or 6.3mm tags
- Filtered Inlet and Blanking Plate options
- Shuttered or Non-shuttered Outlet
- Fused



How to order -

BZV XX	/	XXXXX	/	XX

Type of Inlet / Outlet

C14 Power Inlet (cold condition) and Sheet F Non-shuttered Power Outlet, 2.8 or 6.3mm tabs:

09 = PX0575/63 + PX0695/63
10 = PX0575/28 + PX0695/28

C14 Power Inlet (cold condition) and Sheet F Shuttered Power Outlet, 2.8 or 6.3mm tabs:

17 = PX0575/63 + PX0783/63
18 = PX0575/28 + PX0783/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see page 510
E.g. BZV09/A0120/04

Combination of Other Components

Twin Fuseholder:
04 = 2 x FX0359

Voltage Selector and Fuseholder:
14 = 1 x VS0001 + 1 x FX0359

Voltage selector and Neon:
37 = 1 x VS0001 + DX0928/110V/Red
38 = 1 x VS0001 + DX0928/110V/Green
39 = 1 x VS0001 + DX0928/250V/Red
40 = 1 x VS0001 + DX0928/250V/Green

Fuseholder and Neon:
41 = 1 x FX0359 + DX0928/110V/Red
42 = 1 x FX0359 + DX0928/110V/Green
43 = 1 x FX0359 + DX0928/250V/Red
44 = 1 x FX0359 + DX0928/250V/Green

Fuseholder and Blanking Plate:
45 = 1 x FX0359 + Blanking Plate

Voltage Selector and Blanking Plate:
B2 = 1 x VS0001 + Blanking Plate

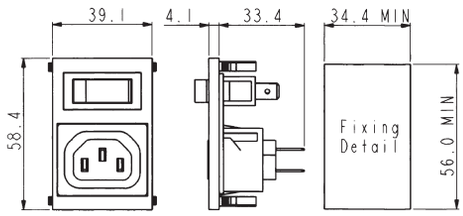
Sheet F IEC Outlet - Vertical

Vertical Module Arrangement



BZV45/Z0000/02

- Outlet with 2.8mm or 6.3mm tags
- Shuttered or Non-Shuttered
- Single Contact Switch or Neon Indicator
- I/O Marking Options



How to order -

BZV XX	/	XXXXX	/	XX

Type of Inlet / Outlet

Sheet F Power Outlet (non shuttered), 6.3 or 2.8mm tabs:

45 = PX0695/63
46 = PX0695/28

Sheet F Power Outlet (shuttered), 6.3 or 2.8mm tabs:

47 = PX0783/63
48 = PX0783/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Combination of Other Components

Single Contact Switch:
01 = S.P. Switch

Single Contact Neon Switch:
02 = S.P. Red Neon Switch
08 = S.P. Green Neon Switch

Neon Indicator:

03 = Red Neon Indicator

Single Contact High Inrush Switch:
46 = S.P. High Inrush Switch

Single Contact Switch Marked I/O:
69 = S.P. Switch (I/O)

Single Contact Neon Switch Marked (I/O):
71 = S.P. Red Neon Switch (I/O)
74 = S.P. Green Neon Switch (I/O)

Single Contact High Inrush Switch Marked (I/O):
98 = S.P. High Inrush Switch (I/O)

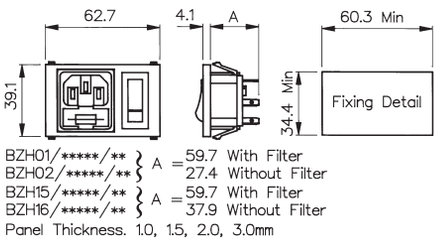
C14 IEC Fused Inlet - Horizontal

Horizontal Module Arrangement



BZH01/Z0000/01

- Fused Inlet with 2.8mm or 6.3mm tags
- Single Contact Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

BZH XX	/	XXXXX	/	XX

Type of Inlet / Outlet

Single Fused C14 Power Inlet (cold condition), 2.8 or 6.3mm tabs:

01 = PF0011/63
02 = PF0011/28

Twin Fused C14 Power Inlet (cold condition), 2.8 or 6.3mm tabs:

15 = PF0033/63
16 = PF0033/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see pages 511 - 512
E.g. BZH01/A0620/01

Combination of Other Components

Single Contact Switch:
01 = S.P. Switch

Single Contact Neon Switch:
02 = S.P. Red Neon Switch
08 = S.P. Green Neon Switch

Neon Indicator:
03 = Red Neon Indicator

Single Contact High Inrush Switch:
46 = S.P. High Inrush Switch

Single Contact Switch Marked I/O:
69 = S.P. Switch (I/O)

Single Contact Neon Switch Marked (I/O):
71 = S.P. Red Neon Switch (I/O)
74 = S.P. Green Neon Switch (I/O)

Single Contact High Inrush Switch Marked (I/O):
98 = S.P. High Inrush Switch (I/O)

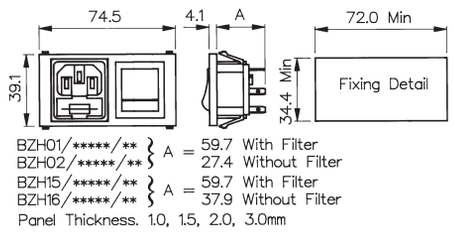
C14 IEC Fused Inlet - Horizontal

Horizontal Module Arrangement



BZH01/Z0000/10

- Fused Inlet with 2.8mm or 6.3mm tags
- Double Contact Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

BZH XX	/	XXXXX	/	XX

Type of Inlet / Outlet

Single Fused C14 Power Inlet (cold condition), 2.8 or 6.3mm tabs:

01 = PF0011/63
02 = PF0011/28

Twin Fused C14 Power Inlet (cold condition), 2.8 or 6.3mm tabs:

15 = PF0033/63
16 = PF0033/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see pages 511 - 512
E.g. BZH01/A0620/10

Combination of Other Components

Neon Indicator:
03 = Red Neon Indicator

Double Contact Switch:
10 = D.P. Switch

Double Contact Neon Switch:
11 = D.P. Red Neon Switch
12 = D.P. Green Neon Switch

Double Contact High Inrush Switch:
13 = D.P. High Inrush Switch

Double Contact Switch marked I/O:
70 = D.P. Switch (I/O)

Double Contact Neon Switch Marked (I/O):
76 = D.P. Red Neon Switch (I/O)
77 = D.P. Green Neon Switch (I/O)

Double Contact High Inrush Switch Marked (I/O):
78 = D.P. High Inrush Switch (I/O)
B1 = D.P. High Inrush Green Neon Switch (I/O)

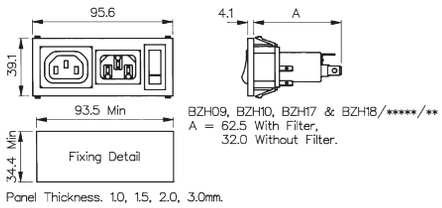
C14 IEC Fused Inlet - Horizontal

Horizontal Module Arrangement



BZH09/Z0000/01

- Inlet/Outlet Combination with 2.8mm or 6.3mm tags
- Shuttered or Non-Shuttered Outlet
- Single Contact Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

BZH XX	/	XXXXX	/	XX

Type of Inlet / Outlet

C14 Power Inlet (cold condition) and Sheet F Non-shuttered Power Outlet, 2.8 or 6.3mm tabs:

09 = PX0575/63 + PX0695/63
10 = PX0575/28 + PX0695/28

C14 Power Inlet (cold condition) and Sheet F Shuttered Power Outlet , 2.8 or 6.3mm tabs:

17 = PX0575/63 + PX0783/63
18 = PX0575/28 + PX0783/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see page 510
E.g. BZH09/A0120/01

Combination of Other Components

Single Contact Switch:
01 = S.P. Switch

Single Contact Neon Switch:
02 = S.P. Red Neon Switch
08 = S.P. Green Neon Switch

Neon Indicator:
03 = Red Neon Indicator

Single Contact High Inrush Switch:
46 = S.P. High Inrush Switch

Single Contact Switch Marked I/O:
69 = S.P. Switch (I/O)

Single Contact Neon Switch Marked (I/O):
71 = S.P. Red Neon Switch (I/O)
74 = S.P. Green Neon Switch (I/O)

Single Contact High Inrush Switch Marked (I/O):
98 = S.P. High Inrush Switch (I/O)

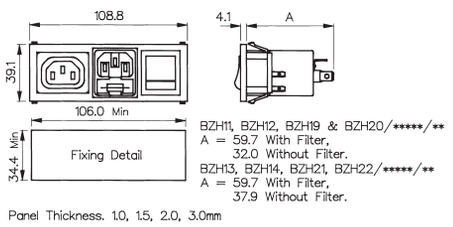
C14 IEC Inlet/Sheet F IEC Outlet - Horizontal

Horizontal Module Arrangement



BZH11/Z0000/10

- Inlet/Outlet Combination with 2.8mm or 6.3mm tags
- Single or Twin Fused Inlet
- Shuttered or Non-Shuttered Outlet
- Double Contact Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

BZH XX	/	XXXXX	/	XX

Type of Inlet / Outlet

Single Fused C14 Power Inlet (cold condition) and Sheet F Power Outlet, 2.8 or 6.3mm tabs:

11 = PF0011/63 + PX0695/63
12 = PF0011/28 + PX0695/28

Twin Fused C14 Power Inlet (cold condition) and Sheet F Power Outlet , 2.8 or 6.3mm tabs:

13 = PF0033/63 + PX0695/63
14 = PF0033/28 + PX0695/28

Single Fused C14 Power Inlet (cold condition) and Sheet F Shuttered Power Outlet, 2.8 or 6.3mm tabs:

19 = PF0011/63 + PX0783/63
20 = PF0011/28 + PX0783/28

Twin Fused C14 Power Inlet (cold condition) and Sheet F Shuttered Power Outlet , 2.8 or 6.3mm tabs:

21 = PF0033/63 + PX0783/63
22 = PF0033/28 + PX0783/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see pages 511 - 512
E.g. BZH11/A0620/10

Combination of Other Components

Neon Indicator:
D3 = Red Neon Indicator

Double Contact Switch:
10 = D.P. Switch

Double Contact Neon Switch:
11 = D.P. Red Neon Switch
12 = D.P. Green Neon Switch

Double Contact High Inrush Switch:
13 = D.P. High Inrush Switch

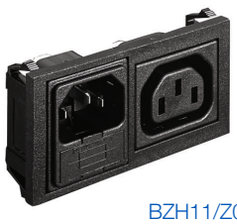
Double Contact Switch Marked I/O:
70 = D.P. Switch (I/O)

Double Contact Neon Switch Marked (I/O):
76 = D.P. Red Neon Switch (I/O)
77 = D.P. Green Neon Switch (I/O)

Double Contact High Inrush Switch Marked (I/O):
78 = D.P. High Inrush Switch (I/O)
B1 = D.P. High Inrush Green Neon Switch (I/O)

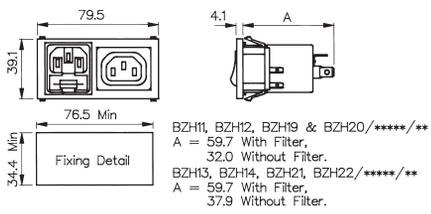
C14 IEC Inlet/Sheet F IEC Outlet - Horizontal

Horizontal Module Arrangement



BZH11/Z0000/00

- Fused Inlet/Outlet
- Combination with 2.8mm or 6.3mm tags
- Filtered Inlet Option
- Single or Twin Fused



How to order -

BZH XX	/	XXXXX	/	XX

Type of Inlet / Outlet

Single Fused C14 Power Inlet (cold condition) and Sheet F Non-shuttered Power Outlet, 2.8 or 6.3mm tabs:

11 = PF0011/63 + PX0695/63
12 = PF0011/28 + PX0695/28

Twin Fused C14 Power Inlet (cold condition) and Sheet F Non-shuttered Power Outlet , 2.8 or 6.3mm tabs:

13 = PF0033/63 + PX0695/63
14 = PF0033/28 + PX0695/28

Single Fused C14 Power Inlet (cold condition) and Sheet F Shuttered Power Outlet, 2.8 or 6.3mm tabs:

19 = PF0011/63 + PX0783/63
20 = PF0011/28 + PX0783/28

Twin Fused C14 Power Inlet (cold condition) and Sheet F Shuttered Power Outlet , 2.8 or 6.3mm tabs:

21 = PF0033/63 + PX0783/63
22 = PF0033/28 + PX0783/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see pages 511 - 512
E.g. BZH11/A0620/00

Combination of Other Components

None

00 = None

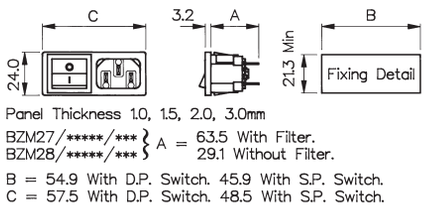
C14 IEC Inlet - Mini Bezel

Minimum Combined Bezel Size



BZM27/Z0000/57B

- Inlet with 2.8, 4.8 or 6.3mm tags
- Horizontal Module Arrangement
- Single and Double Contact Switch Variations
- Filtered Inlet Option



How to order -

BZM XX / XXXXX / XX / X

Type of Inlet / Outlet

C14 Power Inlet (cold condition), 6.3, 4.8 & 2.8mm tabs:

27 = PX0575/63
42 = PX0575/48
28 = PX0575/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see page 510
E.g. BZM27/A0120/57B

Switch Variation

Single Contact Switch, 4.8mm or solder tab, marked I/O:
53 = S.P. Switch, 4.8mm tab (I/O)
54 = S.P. Switch, solder tab (I/O)

Single Contact Illuminated Switch, 4.8mm or solder tab:
55 = S.P. Switch Illum. Red, 4.8mm tab
61 = S.P. Switch Illum. Green, 4.8mm tab
56 = S.P. Switch Illum. Red, solder tab
62 = S.P. Switch Illum. Green, solder tab

Double Contact Switch, 4.8mm or solder tab, marked I/O:
57 = D.P. Switch, 4.8mm tab (I/O)
58 = D.P. Switch, solder tab (I/O)

Double Contact Illuminated Switch, 4.8mm or solder tab:
59 = D.P. Switch Illum. Red, 4.8mm tab
63 = D.P. Switch Illum. Green, 4.8mm tab
60 = D.P. Switch Illum. Red, solder tab
64 = D.P. Switch Illum. Green, solder tab

Double Contact High Inrush, 4.8mm tabs:
65 = D.P. High Inrush Switch, 4.8mm tabs (S.P. format)

Double Contact High Inrush, 4.8mm tabs, marked I/O:
68 = D.P. High Inrush Switch, 4.8mm tabs, I/O (S.P. format)

Single Contact Illuminated Switch, 4.8mm or solder tab, Marked I/O:
A1 = S.P. Switch Illum. Red, 4.8mm tab (I/O)
A5 = S.P. Switch Illum. Green, 4.8mm tab (I/O)
A2 = S.P. Switch Illum. Red, solder tab (I/O)
A6 = S.P. Switch Illum. Green, solder tab (I/O)

Double Contact Illuminated Switch, 4.8mm or solder tab, Marked I/O:
A3 = D.P. Switch Illum. Red, 4.8mm tab
A7 = D.P. Switch Illum. Green, 4.8mm tab
A4 = D.P. Switch Illum. Red, solder tab
A8 = D.P. Switch Illum. Green, solder tab

Panel Thickness

1.0mm = A
1.5mm = B
2.0mm = C
3.0mm = D

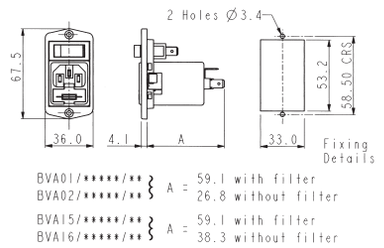
C14 IEC Fused Inlet - Polyflange

Vertical Module Arrangement



BVA01/Z0000/02

- Fused Inlet with 2.8mm or 6.3mm tags
- Screw Fixing to Panel
- Single Contact Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches

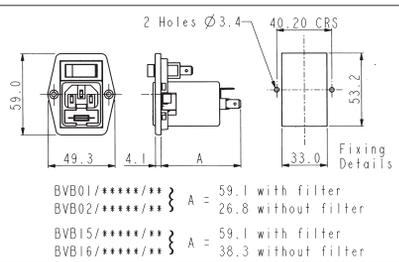


Vertical Module Arrangement



BVB01/Z0000/01

- Fused Inlet with 2.8mm or 6.3mm tags
- Screw Fixing to Panel
- Single Contact Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

BV X	XX	/	XXXXX	/	XX

Flange Type

A = Top fixing

B = Side fixing

Type of Inlet / Outlet

Single Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:

01 = PF0011/63
02 = PF0011/28

Twin Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:

15 = PF0033/63
16 = PF0033/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see pages 511 - 512
E.g. BVA01/A0620/01

Combination of Other Components

Single Contact Switch:
01 = S.P. Switch

Single Contact Neon Switch:
02 = S.P. Red Neon Switch
08 = S.P. Green Neon Switch

Neon Indicator:
03 = Red Neon Indicator

Single Contact High Inrush Switch:
46 = S.P. High Inrush Switch

Single Contact Switch Marked I/O:
69 = S.P. Switch (I/O)

Single Contact Neon Switch Marked (I/O):
71 = S.P. Red Neon Switch (I/O)
74 = S.P. Green Neon Switch (I/O)

Single Contact High Inrush Switch Marked (I/O):
98 = S.P. High Inrush Switch (I/O)

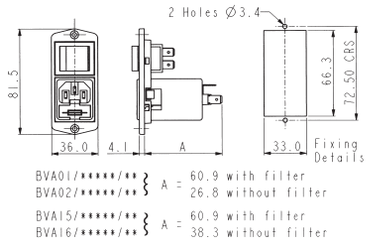
C14 IEC Fused Inlet - Polyflange

Vertical Module Arrangement



BVA01/Z0000/10

- Fused Inlet with 2.8mm or 6.3mm tags
- Screw Fixing to Panel
- Double Contact Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches

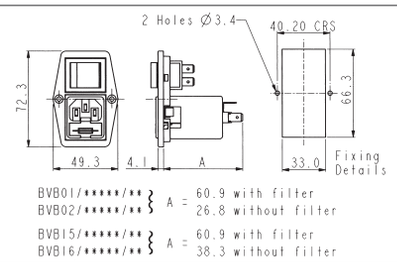


Vertical Module Arrangement



BVB01/Z0000/11

- Fused Inlet with 2.8mm or 6.3mm tags
- Screw Fixing to Panel
- Double Contact Switch Variations
- Filtered Inlet Option
- Options of I/O marked switches



How to order -

BV X	XX	/	XXXXX	/	XX

Flange Type

A = Top fixing

B = Side fixing

Type of Inlet / Outlet

Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:

01 = PF0011/63
02 = PF0011/28

Twin Fused C14 Power Inlet (cold condition), 6.3 or 2.8mm tabs:

15 = PF0033/63
16 = PF0033/28

Filtered or Non Filtered Inlet

Z0000 = Non Filtered

Axxxx = Standard

For Filtered inlet use 6th to 9th characters from filter ordering code see pages 511 - 512
E.g. BVA01/A0620/10

Combination of Other Components

Neon Indicator:
D3 = Red Neon Indicator

Double Contact Switch:
10 = D.P. Switch

Double Contact Neon Switch:
11 = D.P. Red Neon Switch
12 = D.P. Green Neon Switch

Double Contact High Inrush Switch:
13 = D.P. High Inrush Switch

Double Contact Switch Marked I/O:
70 = D.P. Switch (I/O)

Double Contact Neon Switch Marked (I/O):
76 = D.P. Red Neon Switch (I/O)
77 = D.P. Green Neon Switch (I/O)

Double Contact High Inrush Switch Marked (I/O):
78 = D.P. High Inrush Switch (I/O)
B1 = D.P. High Inrush Green Neon Switch (I/O)

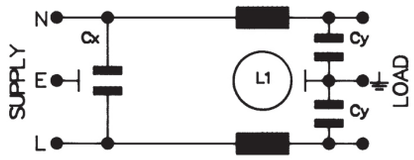
C14 IEC Fused Inlet

EMI Filter Options



BVA01/Z0000/10

- For Polysnap modules BZV03, BZV04, BZV09, BZV10, BZV17, BZV18, BZH09, BZH10, BZH17, BZH18, BZM27, BZM28
- PX0575 style IEC inlet
- Using PS01/A style filter
- Standard Attenuation Filter



How to order -

B XXXX	/	A	XX	X	X	/	XX

Polysnap Part No.

From Polysnap Selection

Filter Type

A = Standard

Rating

01 = 1A

03 = 3A

06 = 6A

10 = 10A

L/C Circuit

1 = Version 1

2 = Version 2

3 = Version 3

Additional Components

0 = None

Polysnap Part No.

From Polysnap Selection

Rating	Version	L1	Cx	Cy
1 AMP	1	2 x 2.8mH	1 x 15nF	2 x 2.2nF
“	2	2 x 10mH	1 x 15nF	2 x 2.2nF
“	3	2 x 10mH	1 x 47nF	2 x 2.2nF
3 AMP	1	2 x 0.75mH	1 x 15nF	2 x 2.2nF
“	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
“	3	2 x 1.8mH	1 x 47nF	2 x 2.2nF
6 AMP	1	2 x 0.3mH	1 x 15nF	2 x 2.2nF
“	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
“	3	2 x 0.7mH	1 x 47nF	2 x 2.2nF
10 AMP	1	2 x 0.17mH	1 x 15nF	2 x 2.2nF
“	2	2 x 0.35mH	1 x 15nF	2 x 2.2nF
“	3	2 x 0.17mH	1 x 47nF	2 x 2.2nF

Part No. Example

BZV03/A0120/02

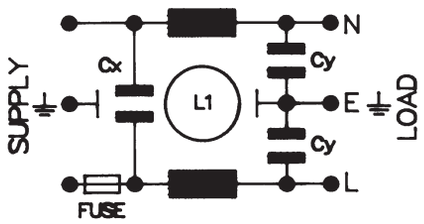
BZV style Polysnap module with PX0575 IEC power inlet, filter rated at 1 amp, L/C circuit version 2 (L1 = 2 x 10mH, Cx = 1 x 15nF, Cy = 2 x 2.2nF) 6.3mm tabs and single Contact red neon switch.

C14 Inlet Single Fuse - Standard Filter

EMI Filter Options



- For Polysnap modules BZV01, BZV02, BZH01, BZH02, BZH11, BZH12, BZH19, BZH20, BVA01, BVA02, BVB01, BVB02
- PF0011 style single fuse IEC inlet
- Using PS21/A style filter
- Standard Attenuation Filter



How to order -

B XXXX	/	A	XX	X	X	/	XX
Polysnap Part No.		**Filter Type**	**Rating**	**L/C Circuit**	**Additional Components**		**Polysnap Part No.**
From Polysnap Selection		A = Standard	01 = 1A 03 = 3A 06 = 6A	2 = Version 2 3 = Version 3	0 = None		From Polysnap Selection

Rating	Version	L1	Cx	Cy
1 AMP	1			
“	2			
“	3	2 x 12mH	1 x 47nF	2 x 2.2nF
3 AMP	1			
“	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
“	3	2 x 6.5mH	1 x 47nF	2 x 2.2nF
6 AMP	1			
“	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
“	3	2 x 2mH	1 x 47nF	2 x 2.2nF
10 AMP	1			
“	2			
“	3			

Part No. Example

BZV01/A0630/01

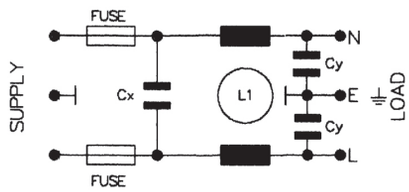
BZV style Polysnap module with PF0011 single fused (5 x 20mm) IEC power inlet, filter rated at 6 amp, L/C circuit version 3 (L1 = 2 x 2.0mH, Cx = 1 x 47nF, Cy = 2 x 2.2nF), 6.3mm tabs and single Contact switch.

C14 Inlet Twin Fuse - Standard Filter

EMI Filter Option



- For Polysnap modules BZV15, BZV16, BZH13, BZH14, BZH15, BZH16, BZH21, BZH22, BVA15, BVA16, BVB15, BVB16
- PF0033 style twin fuse IEC inlet
- Using PS26/A filter
- Standard Attenuation Filter



How to order -

B XXXX	/	A	XX	X	X	/	XX
Polysnap Part No.		**Filter Type**	**Rating**	**L/C Circuit**	**Additional Components**		**Polysnap Part No.**
From Polysnap Selection		A = Standard	02 = 2A 04 = 4A	2 = Version 2	0 = None		From Polysnap Selection

Rating	Version	L1	Cx	Cy
1 AMP	1			
“	2			
“	3	2 x 1.8mH	1 x 15nF	2 x 2.2nF
4 AMP	1			
“	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
“	3			

Part No. Example

BZH13/A0420/00

BZH style Polysnap module with PF0033 twin fused (5 x 20mm) IEC power inlet, filter rated at 4 amps, L/C circuit version 2 (L1 = 2 x 0.7mH, Cx = 1 x 15nF, Cy = 2 x 2.2nF) 6.3mm tabs and no additional components.

Mains Filters



Designed to reduce conducted mains borne EMI, this extensive range provides many solutions to EMI problems. To meet individual design requirements the filters are available with two attenuation options – standard and medical. Current ratings are from 1 to 10 amps with single or twin fused types also available.

The choice of mounting options will suit most applications with flange, snap to panel or base/bulkhead.

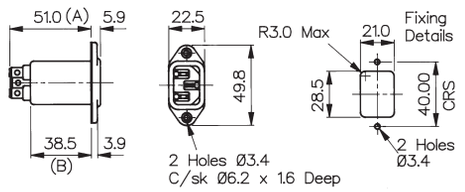
C14 IEC Power Inlets Flange and Snap Fit

Flange Mounting



PS00/A

- 1, 3, 6 or 10 Amp Current Rating
- 3 Alternative Circuits
- No additional components
- 6.3mm tabs



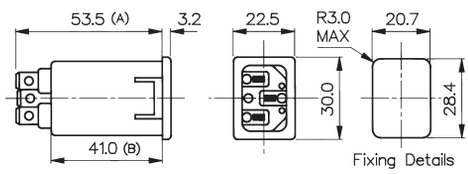
WHEN 10A VERSION 2 or SURGE PROTECTION (ALL RATINGS) REQUIRED A = 60.2 B = 47.7

Snap Fit



PS01/A

- 1, 3, 6 or 10 Amp Current Rating
- 3 Alternative Circuits
- No additional components
- 6.3mm tabs
- 1, 1.5, 2 or 3mm panels

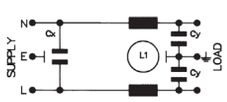


WHEN 10A VERSION 2 or SURGE PROTECTION (ALL VERSIONS) REQUIRED A = 62.7 B = 50.2

How to order -

PS00/A or PS01/A	XX	X	0	/	63	XX
Series	**Rating**	**L/C Circuit**	**Additional Components**		**Tag Type and Configuration**	**Panel Thickness**
PS00/A	01 = 1A	1 = Version 1	0 = None		63 = 6.3mm tabs	00 = Flange
PS01/A	03 = 3A	2 = Version 2				10 = 1.0mm
	06 = 6A	3 = Version 3				15 = 1.5mm
	10 = 10A					20 = 2.0mm
						30 = 3.0mm

Circuit Board Diagram



Specification	PS00/Axxxx/xx00	PS01/Axxxx/xxxx
Max. Working Voltage:	250V a.c. 50-400Hz	250V a.c. 50-400Hz
Earth Leakage Current:	<0.35mA (250V, 50Hz)	<0.35mA (250V, 50Hz)
Temperature Range:	–25ºC to +85ºC	–25ºC to +85ºC
Max. Ambient Temp: (@ Full Load)	40ºC (derate linearly to 0A @ 85ºC)	40ºC (derate linearly to 0A @ 85ºC)
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral
Approvals:		
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant

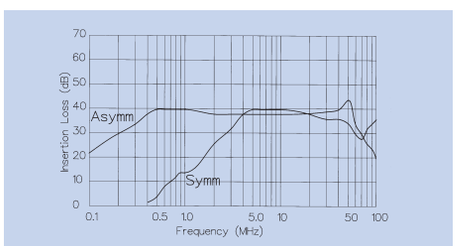
Part No. Example

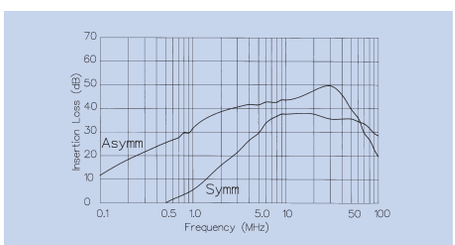
PS00/A0120/6300

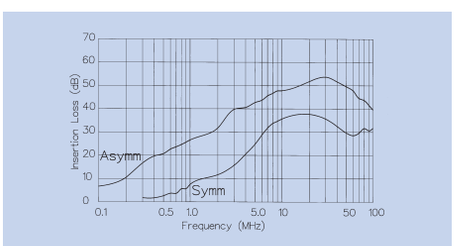
PS00 series, flange fitting, standard filtered IEC power inlet, rated at 1 ampere. L/C circuit version 2, i.e. L1 = 2 x 10mH, Cx = 15nF, Cy = 2 x 2.2nF. 6.3mm tabs.

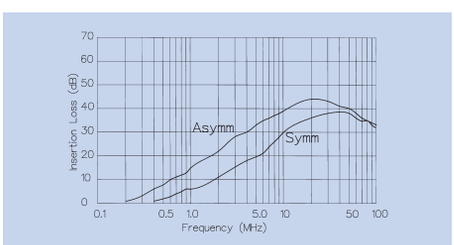
Rating	Version	L1	Cx	Cy
1 AMP	1	2 x 2.8mH	1 x 15nF	2 x 2.2nF
“	2	2 x 10mH	1 x 15nF	2 x 2.2nF
“	3	2 x 10mH	1 x 47nF	2 x 2.2nF
3 AMP	1	2 x 0.75mH	1 x 15nF	2 x 2.2nF
“	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
“	3	2 x 1.8mH	1 x 47nF	2 x 2.2nF
6 AMP	1	2 x 0.3mH	1 x 15nF	2 x 2.2nF
“	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
“	3	2 x 0.7mH	1 x 47nF	2 x 2.2nF
10 AMP	1	2 x 0.17mH	1 x 15nF	2 x 2.2nF
“	2	2 x 0.35mH	1 x 15nF	2 x 2.2nF
“	3	2 x 0.17mH	1 x 47nF	2 x 2.2nF

Version 1

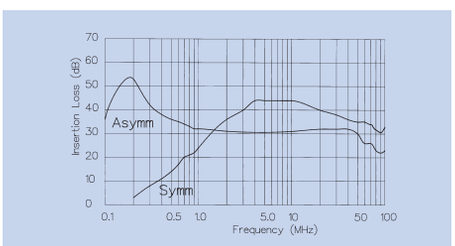


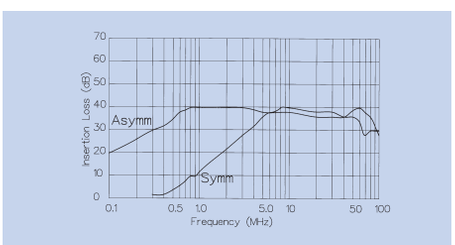


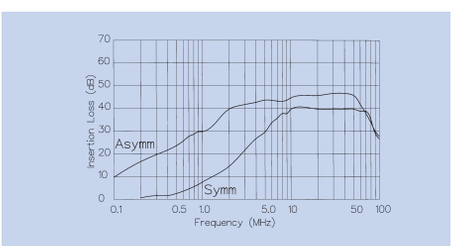


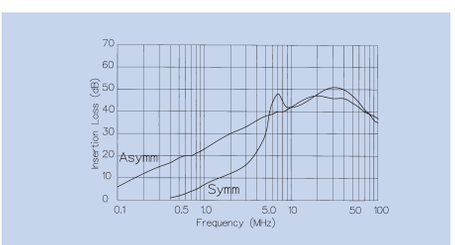


Version 2

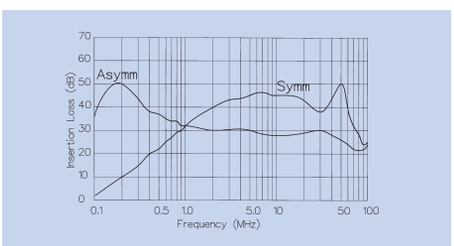


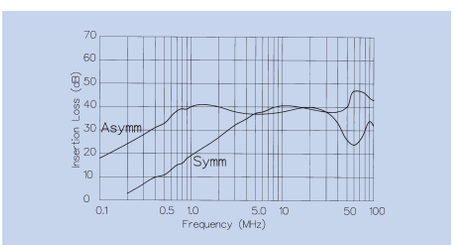


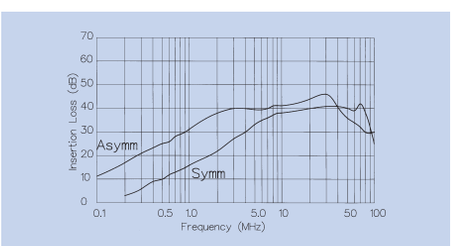


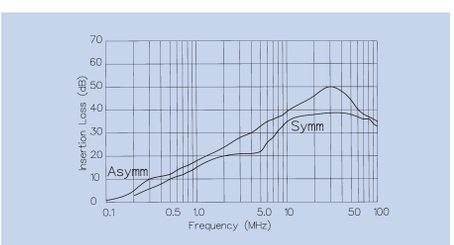


Version 3









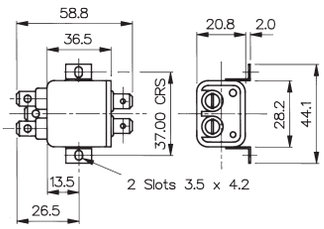
Base Mounting and Bulkhead

Base Mounting



PS02/A

- 1, 3, 6 or 10 Amp Current Rating
- 3 Alternative Circuits
- No additional components
- 6.3mm tabs

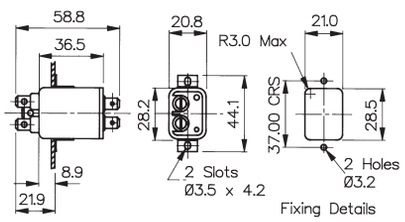


Bulkhead Mounting



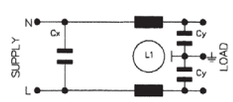
PS03/A

- 1, 3, 6 or 10 Amp Current Rating
- 3 Alternative Circuits
- No additional components
- 6.3mm tabs



How to order -

PS02/A or PS03/A	XX	X	0	/	63

Series	Rating	L/C Circuit	Additional Components	Tag Type and Configuration	Circuit Board Diagram
PS02/A	01 = 1A	1 = Version 1	0 = None	63 = 6.3mm tabs	
PS03/A	03 = 3A	2 = Version 2			
	06 = 6A	3 = Version 3			
	10 = 10A				

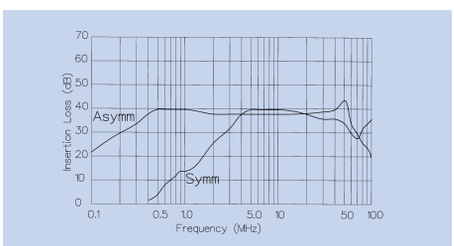
Specification	PS02/Axxxx/xx	PS03/Axxxx/xx	Part No. Example
Max. Working Voltage:	250V a.c. 50-400Hz	250V a.c. 50-400Hz	PS02/A0120/63
Earth Leakage Current:	<0.35mA (250V, 50Hz)	<0.35mA (250V, 50Hz)	PS02 series, standard base mounting filter, rated at 3 amperes. L/C circuit version 1, i.e. L1 = 2 x 0.75mH, Cx = 15nF, Cy = 2 x 2.2nF with 2.8mm tabs.
Temperature Range:	–25ºC to +85ºC	–25ºC to +85ºC	
Max. Ambient Temp: (@ Full Load)	40ºC (derate linearly to 0A @ 85ºC)	40ºC (derate linearly to 0A @ 85ºC)	
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	
Approvals:			
RoHS	Compliant	Compliant	

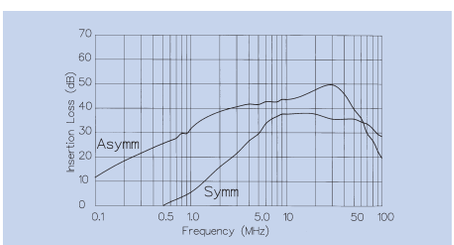
PS02/Axxxx/xx & PS03/Axxxx/xx

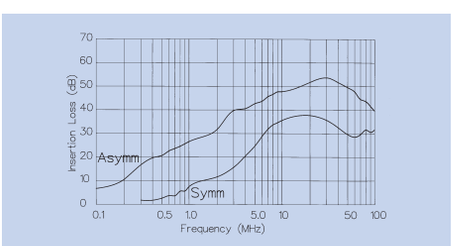
Rating & Version Table

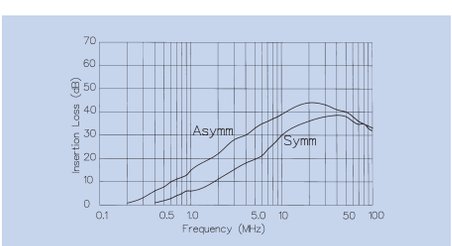
Rating	Version	L1	Cx	Cy
1 AMP	1	2 x 2.8mH	1 x 15nF	2 x 2.2nF
“	2	2 x 10mH	1 x 15nF	2 x 2.2nF
“	3	2 x 10mH	1 x 47nF	2 x 2.2nF
3 AMP	1	2 x 0.75mH	1 x 15nF	2 x 2.2nF
“	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
“	3	2 x 1.8mH	1 x 47nF	2 x 2.2nF
6 AMP	1	2 x 0.3mH	1 x 15nF	2 x 2.2nF
“	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
“	3	2 x 0.7mH	1 x 47nF	2 x 2.2nF
10 AMP	1	2 x 0.17mH	1 x 15nF	2 x 2.2nF
“	2	2 x 0.35mH	1 x 15nF	2 x 2.2nF
“	3	2 x 0.17mH	1 x 47nF	2 x 2.2nF

Version 1

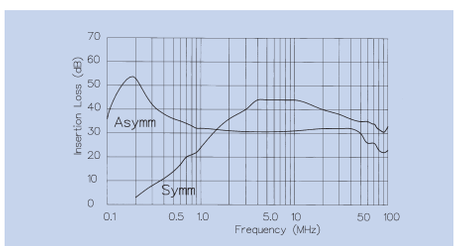


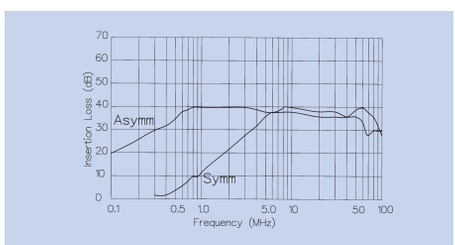


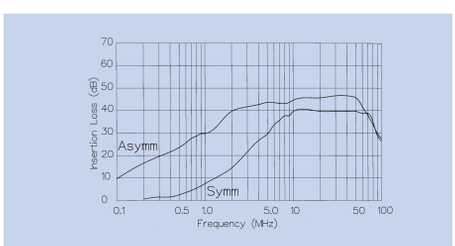


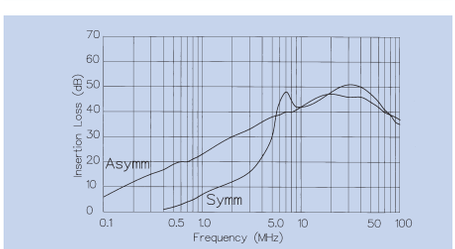


Version 2

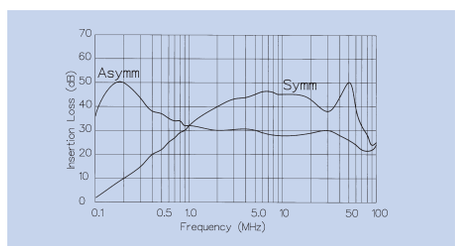


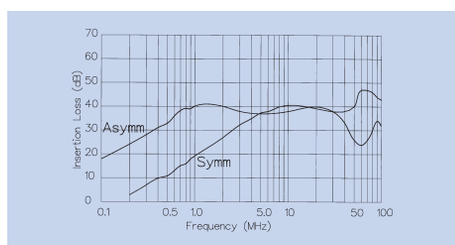


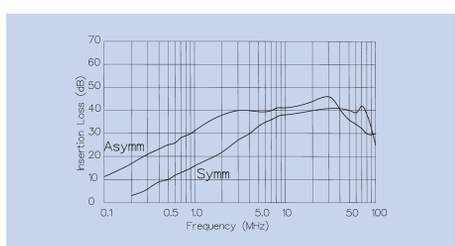


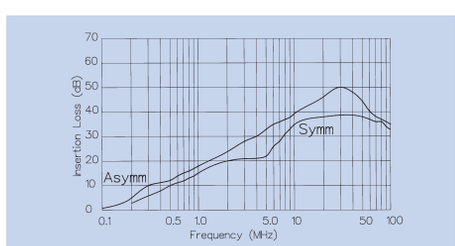


Version 3



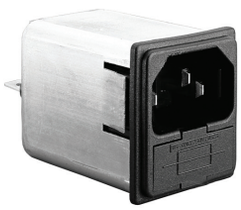






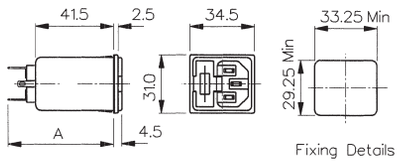
C14 IEC Power Inlets (Single Fused)

Snap Fit



PS21/A

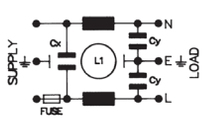
- 1, 3, or 6 Amp Current Rating
- Single Fused
- 2 Alternative Circuits
- 6.3mm tabs
- 1, 1.5, 2 or 3mm panels



Fixing Details

List No.	DIM A
PS21/A****/28**	56.5
PS21/A****/63**	57.5

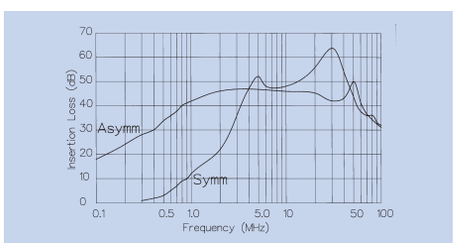
How to order -

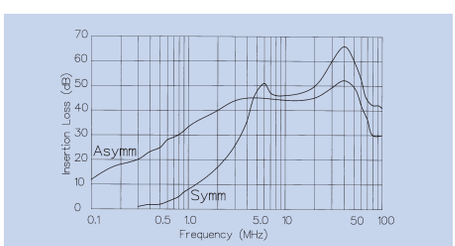
PS21/A	XX	X	0	/ 63	/ XX
Series	**Rating**	**L/C Circuit**	**Additional Components**	**Tag Type and Configuration**	**Panel Thickness**	**Circuit Board Diagram**
PS21/A	01 = 1A 03 = 3A 06 = 6A	2 = Version 2 3 = Version 3	0 = None	63 = 6.3mm tabs	00 = Flange 10 = 1.0mm 15 = 1.5mm 20 = 2.0mm 30 = 3.0mm	

Specification	PS21/Axxx0/xxxx	Part No. Example
Max. Working Voltage:	250V a.c. 50-400Hz	PS21/A0620/63
Earth Leakage Current:	<0.35mA (250V, 50Hz)	PS21 series, flange fitting, standard filtered IEC power inlet, single fused, rated at 6 amperes. L/C circuit version 2, i.e L1 = 2 x 0.7mH, Cx = 1 x 15nF, Cy = 2 x 2.2nF. 6.3mm tabs.
Temperature Range:	–25ºC to +85ºC	
Max. Ambient Temp: (@ Full Load)	40ºC (derate linearly to 0A @ 85ºC)	
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	
Approvals:	c UL us	
RoHS	Compliant	

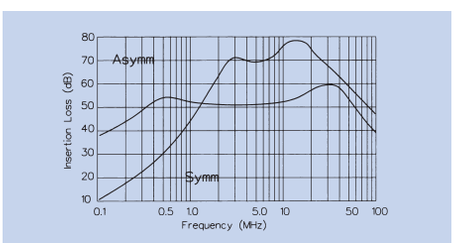
Rating	Version	L1	Cx	Cy
1 AMP	1			
“	2			
“	3	2 x 10mH	1 x 47nF	2 x 2.2nF
3 AMP	1			
“	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
“	3	2 x 6.5mH	1 x 47nF	2 x 2.2nF
6 AMP	1			
“	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
“	3	2 x 2mH	1 x 47nF	2 x 2.2nF

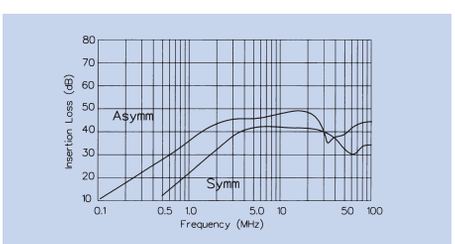
Version 2

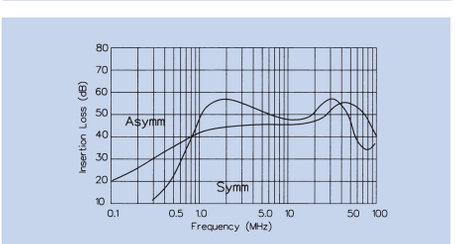




Version 3

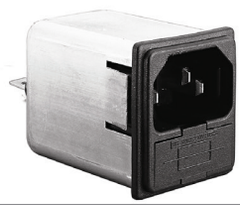






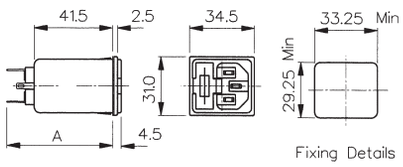
C14 IEC Power Inlets Flange and Snap Fit (Twin Fused)

Snap Fit



PS26/A

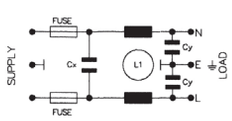
- 2 or 4 Amp Current Rating
- Twin Fused
- No additional components
- 6.3mm tabs
- 1, 1.5, 2 or 3mm panels



List No.	DIM A
PS23/A****/28**	56.5
PS23/A****/63**	57.5

How to order -

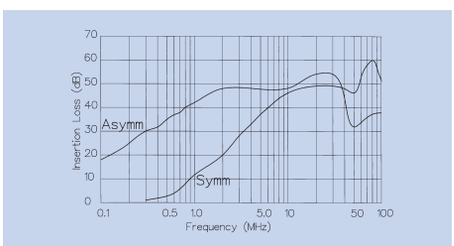
PS26/A	X	2	0	/ 63	/ XX

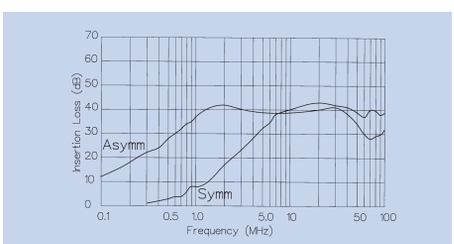
Series	Rating	L/C Circuit	Additional Components	Tag Type and Configuration	Panel Thickness	Circuit Board Diagram
PS26/A	02 = 2A 04 = 4A	2 = Version 2	0 = None	63 = 6.3mm tabs	00 = Flange 10 = 1.0mm 15 = 1.5mm 20 = 2.0mm 30 = 3.0mm	

Specification	PS26/Axx2x/xxxx	Part No. Example
Max. Working Voltage:	250V a.c. 50-400Hz	PS20/A0620/63
Earth Leakage Current:	2.5W per fuse	PS20 series, flange fitting, standard filtered IEC power inlet, single fused, rated at 6 amperes. L/C circuit version 2, i.e L1 = 2 x 0.7mH, Cx = 1 x 15nF, Cy = 2 x 2.2nF. 6.3mm tabs.
Temperature Range:	<0.35mA (250V, 50Hz)	
Max. Ambient Temp: (@ Full Load)	40ºC (derate linearly to 0A @ 85ºC)	
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	
Approvals:	c UL us	
Mating Connectors	PX0587, PX0587/SE, PX0588	
Accessories	P.No. 14340 (see page 22)	
RoHS	Compliant	

Rating	Version	L1	Cx	Cy
1 AMP	1			
“	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
“	3			
3 AMP	1			
“	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
“	3			

Version 2



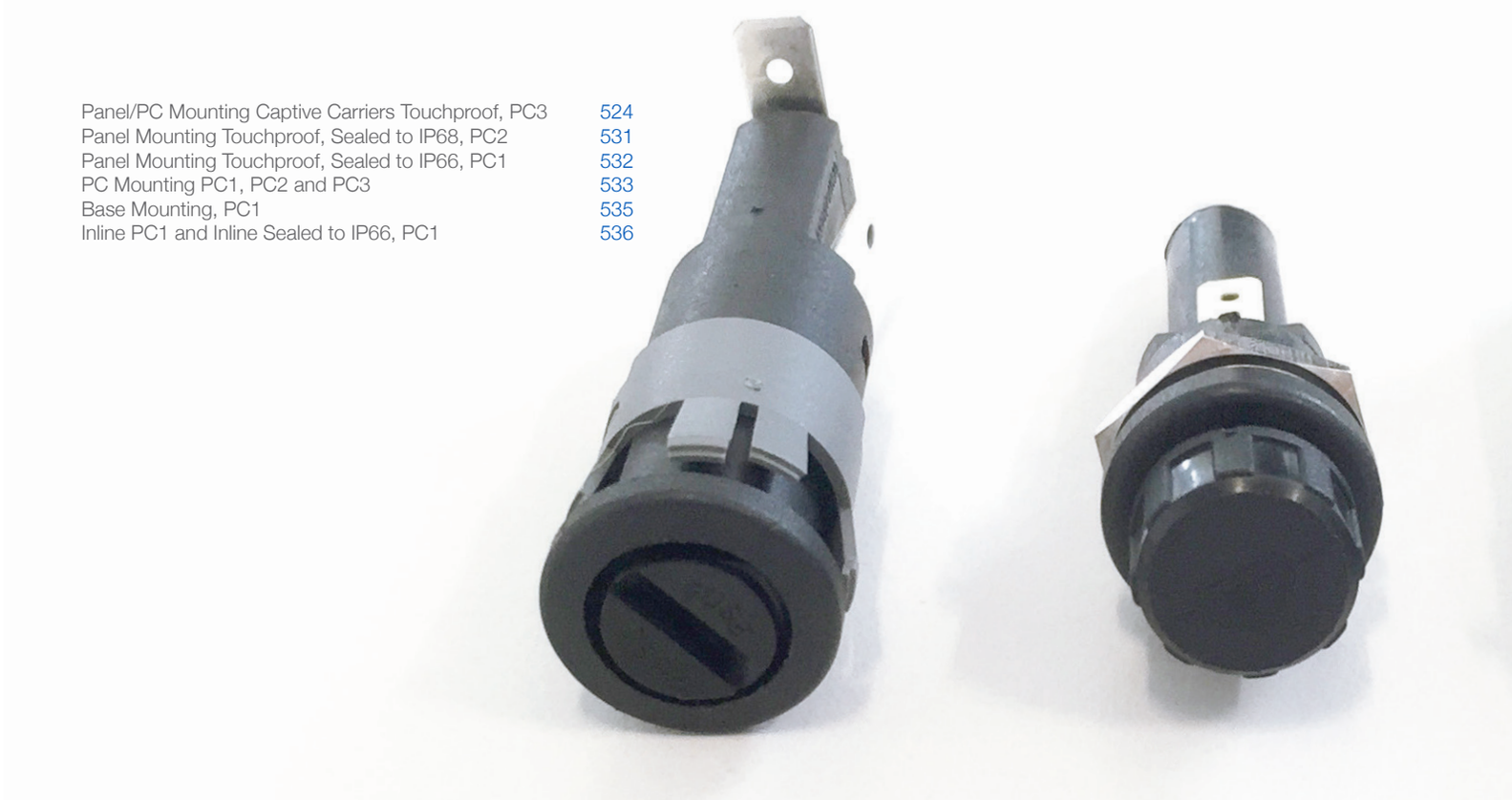


Bulgin's extensive range of fuseholders are designed to give the degree of protection demanded in today's sophisticated electronic equipment. Carrying world-wide safety approvals from cULus and VDE, all types are manufactured from high grade flame retardant nylon and polyester materials.

Designed primarily for 5 x 20mm and 6.3 x 32mm size fuses with protection against shock to categories PC1, PC2 and PC3. There's a choice of styles for Inline, PCB mounting and panel mounting (screw or snap fit) with terminal options for solder, 2.8mm, 4.8mm or 6.3mm tabs or PC spills.Dust and waterproof designs provide a front of panel seal to IP68 in both 5 x 20mm and 6.3 x 32mm size fuses.

Fuse carrier styles include captive drawer, screw cap - with screw driver release, bayonet cap - with screw driver release and screw cap - with finger release.

Panel/PC Mounting Captive Carriers Touchproof, PC3 524
Panel Mounting Touchproof, Sealed to IP68, PC2 531
Panel Mounting Touchproof, Sealed to IP66, PC1 532
PC Mounting PC1, PC2 and PC3 533
Base Mounting, PC1 535
Inline PC1 and Inline Sealed to IP66, PC1 536



Category PC1:

No integral protection against electric shock. If required, Designers/ Manufacturers must provide additional protection against electric shock on equipment.

Category PC2:

With integral protection against electric shock. Fuseholders shall have live parts inaccessible to IEC 60529 Standard Test Finger, when fully assembled, without fuse carrier or fuse in place and when fuse carrier, with fuse is being inserted or withdrawn.

Category PC3:

With integral protection against electric shock. Fuseholders shall have live parts inaccessible to IEC 60529 1mm dia. rigid test wire when fully assembled, without fuse carrier or fuse in place and when fuse carrier, with fuse, is being inserted or withdrawn.

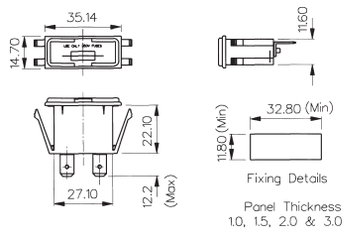
Panel/PC Mounting Captive Carriers Touchproof, PC3

Snap Fit to Panel



FX0430/63

- Protection Category PC3
- Fuse Size 5 x 20mm
- Panel Thickness 1.0, 1.5, 2.0 & 3.0mm
- Captive Drawer
- 10A, 250V (16A, 250V UL)
- 2.8, 4.8 or 6.3 tabs

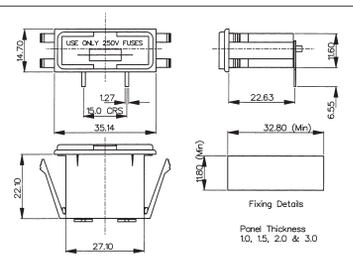


Snap Fit to Panel



FX0430/PC

- Protection Category PC3
- Fuse Size 5 x 20mm
- Panel Thickness 1.0, 1.5, 2.0 & 3.0mm
- Captive Drawer
- 10A, 250V (16A, 250V UL)
- PC spills



Specifications	FX0430/Termination	FX0430/PC
Fuse Size:	5 x 20mm	5 x 20mm
Fuse Carrier:	Captive Drawer	Captive Drawer
Terminations:	/28 (2.8mm solder), /48 (4.8mm tab), /63 (6.3mm tab)	/PC (PC spills)
Max. Rating:	10A, 250V (16A, 250V AC UL)	10A, 250V (16A, 250V AC UL)
Max. Power Dissipation:	2.5W (@ 23°C)	2.5W (@ 23°C)
Insulation Resistance:	>10MΩ @ 500V DC	>10MΩ @ 500V DC
AC Breakdown:	>2kV	>2kV
Contact Resistance:	<10mΩ	<10mΩ
Operating Temp:	–20°C to +85°C (ambient air temp + fuse temp rise)	–20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings: Body/Drawer: Cap: Nut:	Nylon UL94V-0 rated	Nylon UL94V-0 rated
Contacts:	Contact tags: Brass, Tin Plated Fuse Clips: Phosphor Bronze, Nickel Plated	Contact tags: Brass, Tin Plated Fuse Clips: Phosphor Bronze, Nickel Plated
Approvals:		
Accessories:		
Note:		
RoHS	Compliant	Compliant

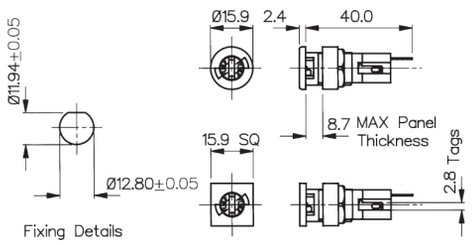
Panel Mounting and Snap Fit Touchproof, PC2

Panel Mount



FX0357 FX0359

- Protection Category PC2
- Fuse Size 5 x 20mm
- Bayonet Cap/Screwdriver Release
- 10A, 250V (16A, 250V UL)

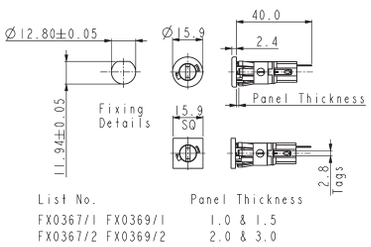


Snap Fit to Panel



FX0367 FX0369

- Protection Category PC2
- Fuse Size 5 x 20mm
- Panel Thickness 1.0 & 1.5 and 2.0 & 3.0mm
- Bayonet Cap/Screwdriver Release
- 10A, 250V (16A, 250V UL)



Specifications	FX0357, FX0359	FX0367/Panel, FX0369/Panel
Fuse Size:	5 x 20mm	5 x 20mm
Panel Thickness:		/1 (1.0-1.5mm panel, black sleeve) /2 (2.0-3.0mm panel, grey sleeve)
Fuse Carrier:	Bayonet cap/Screwdriver release	Bayonet cap/Screwdriver release
Terminations:	Solder tags	Solder tags
Max. Rating:	10A, 250V (16A, 250V AC UL)	10A, 250V (16A, 250V AC UL)
Max. Power Dissipation:	2.5W (@ 23°C)	2.5W (@ 23°C)
Insulation Resistance:	>10²MΩ @ 500V DC	>10²MΩ @ 500V DC
AC Breakdown:	7kV @ 50Hz	7kV @ 50Hz
Contact Resistance:	<10mΩ	<10mΩ
Operating Temp:	–20°C to +85°C (ambient air temp + fuse temp rise)	–20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings: Body: Cap: Nut:	 Polyester UL94V-0 rated Nylon UL94V-0 rated Glass Filled Nylon UL94V-0 rated	 Polyester UL94V-0 rated Nylon UL94V-0 rated
Contacts:	Brass, Silver Plated	Brass, Silver Plated
Approvals:	c UL us	VDE c UL us
Accessories:	P.No. 11327 (See page 537)	P.No. 11327 (See page 537)
RoHS	Compliant	Compliant

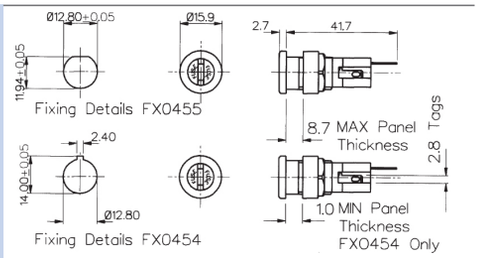
Panel Mounting and Snap Fit Touchproof, PC2

Panel Mount



FX0454, FX0455

- Protection Category PC2
- Fuse Size 5 x 20mm
- Screw Cap/Screwdriver Release
- Keyway Panel Cutout (FX0454)
- D Panel Cutout (FX0455)
- 10A, 250V (16A, 250V UL)

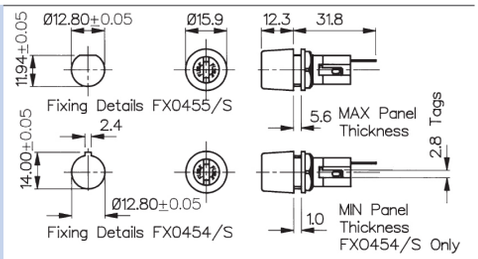


Panel Mount



FX0454/S, FX0455/S

- Protection Category PC2
- Fuse Size 5 x 20mm
- Screw Cap/Screwdriver Release
- High Profile Bezel
- Keyway Panel Cutout (FX0454/S)
- D Panel Cutout (FX0455/S)
- 10A, 250V (16A, 250V UL)

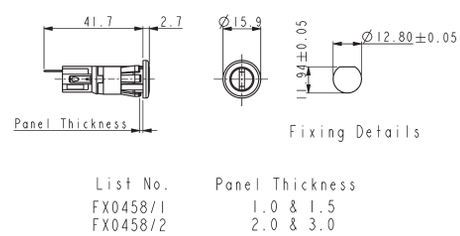


Snap Fit to Panel



FX0458

- Protection Category PC2
- Fuse Size 5 x 20mm
- Panel Sizes 1.0 & 1.5 and 2.0 & 3.0mm
- Screw Cap/Screwdriver Release
- 10A, 250V (16A, 250V UL)



Specifications	FX0454, FX0455	FX0454/S, FX0455/S	FX0458
Fuse Size:	5 x 20mm	5 x 20mm	5 x 20mm
Panel Size:			/1 (1.0-1.5mm panel, black sleeve) /2 (2.0-3.0mm panel, grey sleeve)
Fuse Carrier:	Screw cap/Screwdriver release	Screw cap/Screwdriver release	Screw cap/Screwdriver release
Terminations:	Solder tags	Solder tags	Solder tags
Max. Rating:	10A, 250V (16A, 250V a.c. UL)	10A, 250V (16A, 250V AC UL)	10A, 250V (16A, 250V AC UL)
Max. Power Dissipation:	2.5W (@ 23°C)	2.5W (@ 23°C)	2.5W (@ 23°C)
Insulation Resistance:	>10²MΩ @ 500V d.c.	>10²MΩ @ 500V DC	>10²MΩ @ 500V DC
A.C. Breakdown:	7kV @ 50Hz	7kV @ 50Hz	7kV @ 50Hz
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Operating Temp:	–20°C to +85°C (ambient air temp + fuse temp rise)	–20°C to +85°C (ambient air temp + fuse temp rise)	–20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings: Body: Cap: Nut:	 Polyester UL94V-0 rated Nylon UL94V-0 rated Glass Filled Nylon UL94V-0 rated	 Polyester UL94V-0 rated Nylon UL94V-0 rated Glass Filled Nylon UL94V-0 rated	 Polyester UL94V-0 rated Nylon UL94V-0 rated
Contacts:	Brass, Silver Plated	Brass, Silver Plated	Brass, Silver Plated
Approvals:	VDE c UL us	VDE c UL us	VDE c UL us
Accessories:	P.Nos. 11327, 12297 & 12298 (See page 537)	P.Nos. 11327, 12297 & 12298 (See page 537)	P.Nos. 11327 (See page 537)
RoHS	Compliant	Compliant	Compliant

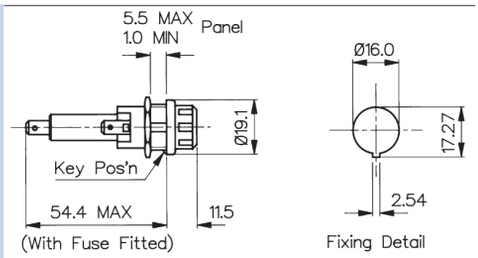
Panel Mounting Touchproof, PC2

Panel Mount



FX0415, FX0416

- Protection Category PC2
- Fuse Sizes:
  6.3 x 32mm (FX0415)
  6.3 x 25mm (FX0416)
- Screw Cap/Hand Release
- 13A, 250V (16A, 250V UL)

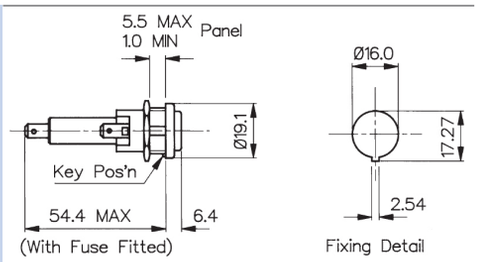


Panel Mount



FX0415/S, FX0416/S

- Protection Category PC2
- Fuse Sizes:
  6.3 x 32mm (FX0415/S)
  6.3 x 25mm (FX0416/S)
- Screw Cap/Screwdriver Release
- 13A, 250V (16A, 250V UL)



Specifications	FX0415, FX0416	FX0415/S, FX0416/S
Fuse Size:	FX0415 - 6.3 x 32mm FX0416 - 6.3 x 25mm	FX0415/S - 6.3 x 32mm FX0416/S - 6.3 x 25mm
Fuse Carrier:	Screw cap/Screwdriver release	Screw cap/Screwdriver release
Terminations:	4.8 series tabs	4.8 series tabs
Max. Rating:	13A, 250V (16A, 250V UL)	13A, 250V (16A, 250V UL)
Max. Power Dissipation:	4W (@ 23°C)	4W (@ 23°C)
Insulation Resistance:	$>10^5$MΩ @ 500V DC	$>10^5$MΩ @ 500V DC
A.C. Breakdown:	4kV @ 50Hz	4kV @ 50Hz
Contact Resistance:	<5mΩ	<5mΩ
Operating Temp:	–20°C to +85°C (ambient air temp + fuse temp rise)	–20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings: Body: Cap: Nut:	 Glass Filled Nylon UL94V-0 rated Nylon UL94V-0 rated Polyester UL94V-0 rated	 Glass Filled Nylon UL94V-0 rated Nylon UL94V-0 rated Polyester UL94V-0 rated
Contacts:	Brass, Silver Plated	Brass, Silver Plated
Approvals:	c UL us	c UL us
Accessories:	P.No. 12932 (See page 537)	P.No. 12932 (See page 537)
RoHS	Compliant	Compliant

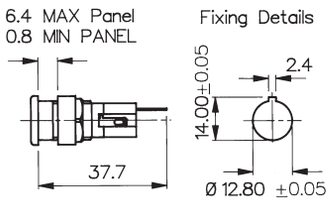
Panel Mounting Touchproof, PC2

Panel Mount



FX0354

- Protection Category PC2
- Low Profile Bezel
- Fuse Size 5 x 20mm
- Screw Cap/Screwdriver Release
- Keyway Panel Cutout
- 6.3A, 250V

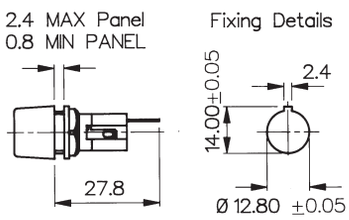


Panel Mount



FX0354/S

- Protection Category PC2
- High Profile Bezel
- Fuse Size 5 x 20mm
- Screw Cap/Screwdriver Release
- Keyway Panel Cutout
- 6.3A, 250V



Specifications	FX0354	FX0354/S
Fuse Size:	5 x 20mm	5 x 20mm
Fuse Carrier:	Screw cap/Screwdriver release	Screw cap/Screwdriver release
Terminations:	Solder tags	Solder tags
Max. Rating:	6.3A, 250V	6.3A, 250V
Max. Power Dissipation:	2.5W (@ 23°C)	2.5W (@ 23°C)
Insulation Resistance:	>10²MΩ @ 500V DC	>10²MΩ @ 500V DC
AC Breakdown:	5kV @ 50Hz	5kV @ 50Hz
Contact Resistance:	<10mΩ	<10mΩ
Operating Temp:	–20°C to +85°C (ambient air temp + fuse temp rise)	–20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings:		
Body:	Polyester UL94V-0 rated	Polyester UL94V-0 rated
Cap:	Nylon UL94V-0 rated	Nylon UL94V-0 rated
Nut:	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94V-0 rated
Contacts:	Brass, Silver Plated	Brass, Silver Plated
Approvals:		
Accessories:	P.No. 11327 and 12298 (See page 537)	P.No. 11327 and 12298 (See page 537)
RoHS	Compliant	Compliant

Touchproof Fuseholders 6.3 x 32mm (1¼" x ¼"), PC2



Key Features

- 6.3 x 32mm fuses
- Screwdriver slot knob
- PC2 protection category
- 4.8, 6.3 and solder terminals
- Low profile bezel
- Snap in or threaded bushing mounting options

Approvals and specifications

c UL us 16A UL 250V UL file E92075

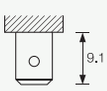
These products comply with safety category PC2.
*Users should be aware of the de-rating factors published by specialist manufacturers of fuses.

Fuseholders with Inline termination have combination (4.8/6.3) terminals. It has not been possible to show both views here. Units with right angle terminals have user specified end terminals and combination mid-body terminals.

T	/	0347	/	RA	/	----
Terminal		Body & Cap		Panel Hole		Options

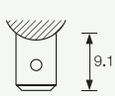
Terminal

C



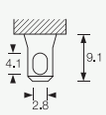
6.3 x 0.8

D



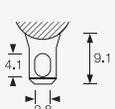
6.3 x 0.8
Right Angle

T



4.8 x 0.8
Solder

U



4.8 x 0.8
Right Angle

Body

0345 (C terminal shown) Screwdriver release



0345 (D terminal shown) Screwdriver release



0347 (T terminal shown) Screwdriver release

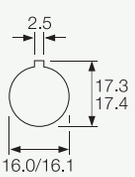


0347 (U terminal shown) Screwdriver release



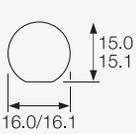
Options

RA



Panel thickness
0.8 - 2.0mm for snap fit
0.8 - 7.0mm for screw to panel fixing

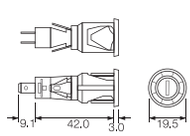
RD



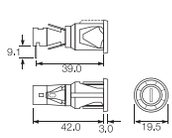
Panel thickness
0.8 - 2.0mm for snap fit
0.8 - 7.0mm for screw to panel fixing

Dimensions

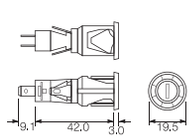
0345 (C terminal shown)



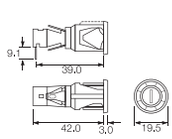
0345 (D terminal shown)



0347 (C terminal shown)



0347 (D terminal shown)



Optional metal fixing nut available for 0347

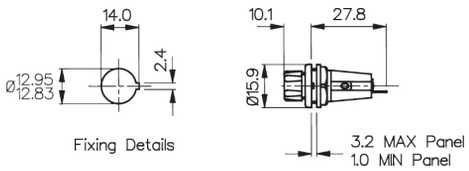
Panel Mounting Touchproof, PC1

Panel Mount



FX0296/S FX0296

- Protection Category PC1
- Fuse Size 5 x 20mm
- Screw Cap/Hand Release
- 6.3A, 250V

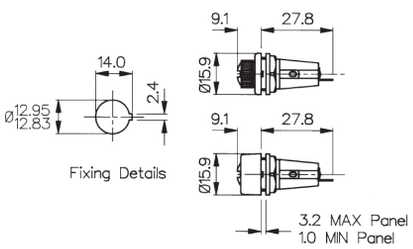


Panel Mount



FX0296/1

- Protection Category PC1
- Fuse Size 5 x 20mm
- Screw Cap/Hand Release
- 6.3A, 250V



Specifications	FX0296, FX0296/S	FX0296/1
Fuse Size:	5 x 20mm	5 x 20mm
Fuse Carrier:	FX0296 Screw cap/Hand release FX0296/S Screw cap/Screwdriver release	Screw cap/Hand release
Terminations:	Solder tags	Solder tags
Max. Rating:	6.3A, 250V	6.3A, 250V
Max. Power Dissipation:	2.5W (@ 23°C)	2.5W (@ 23°C)
Insulation Resistance:	$>10^5$MΩ @ 500V DC	$>10^5$MΩ @ 500V DC
AC Breakdown:	2.5kV @ 50Hz	2.5kV @ 50Hz
Contact Resistance:	<5mΩ	<5mΩ
Operating Temp:	–20°C to +85°C (ambient air temp + fuse temp rise)	–20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings: Body: Cap: Nut:	 Glass Filled Nylon UL94V-0 rated Nylon UL94V-0 rated Glass Filled Nylon UL94V-0 rated	 Glass Filled Nylon UL94V-0 rated Nylon UL94V-0 rated Glass Filled Nylon UL94V-0 rated
Contacts:	Brass, Silver or Tin Plated	Brass, Silver or Tin Plated
Accessories	P.No. 9820 (See page 537)	P.No. 9820 (See page 537)
RoHS	Compliant	Compliant

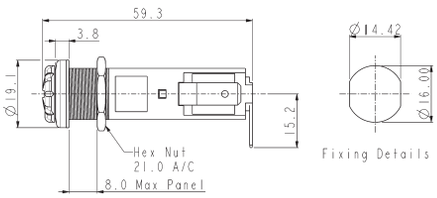
Panel Mounting Touchproof, Sealed to IP68, PC2

Panel Mount



FX0419

- Panel sealed to IP68
- Touchproof Category PC2
- Fuse Size 6.3 x 32mm
- Screw cap/Screwdriver/Hand Release
- 16A. 250V AC

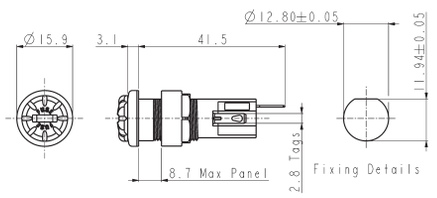


Panel Mount



FX0462

- Panel sealed to IP68
- Touchproof Category PC2
- Fuse Size 5 x 20mm
- Screw cap/Screwdriver/Hand Release
- 10A. 250V AC

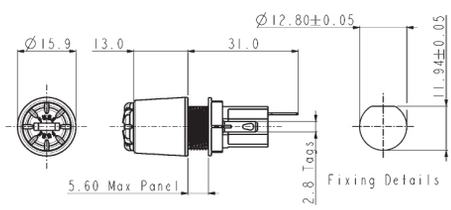


Panel Mount



FX0463

- Panel sealed to IP68
- Touchproof Category PC2
- Fuse Size 5 x 20mm
- High Profile Bezel
- Screw cap/Screwdriver/Hand Release
- 10A. 250V AC



Specifications	FX0419	FX0462	FX0463
Fuse Size:	6.3 x 32mm	5.0 x 20mm	5.0 x 20mm
Fuse Carrier:	Screw cap/Screwdriver/Hand release	Screw cap/Screwdriver/Hand release	Screw cap/Screwdriver/Hand release
Terminations:	6.3 series tabs	Solder tags	Solder tags
Max. Rating:	16A, 250V AC	10A, 250V AC	10A, 250V AC
Max. Power Dissipation:	2.5W (@ 23°C)	2.5W (@ 23°C)	2.5W (@ 23°C)
Insulation Resistance:	>10^6MΩ @ 500V DC	>10^2MΩ @ 500V DC	>10^2MΩ @ 500V DC
A.C. Breakdown:	>2kV @ 50Hz	>7kV @ 50Hz	>7kV @ 50Hz
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Operating Temp:	–20°C to +85°C (ambient air temp + fuse temp rise)	–20°C to +85°C (ambient air temp + fuse temp rise)	–20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings:			
Body:	Polyester UL94V-0 rated	Polyester UL94V-0 rated	Polyester UL94V-0 rated
Cap:	Nylon UL94V-0 rated	Nylon UL94V-0 rated	Nylon UL94V-0 rated
Nut:	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94V-0 rated
Contacts:	Brass, Silver Plated	Brass, Silver Plated	Brass, Silver Plated
Tightening Torque:			
Cap:	0.5 - 0.6Nm (4.43-5.3lbf.in.)	0.4 - 0.6Nm (3.54-5.3lbf.in.)	0.4 - 0.6Nm (3.54-5.3lbf.in.)
Panel Nut:	0.5Nm (4.4lbf.in.)	0.5Nm (4.4lbf.in.)	0.5Nm (4.4lbf.in.)
Sealing:	IP68 to EN60529:1992+A2:2013 (10m for 2weeks)	IP68 to EN60529:1992+A2:2013 (10m for 2weeks)	IP68 to EN60529:1992+A2:2013 (10m for 2weeks)
Accessories:		P.nos. 11327 (See page 537)	P.nos. 11327 (See page 537)
Approvals:	*VDE APPROVALS PENDING		
RoHS	Compliant	Compliant	Compliant

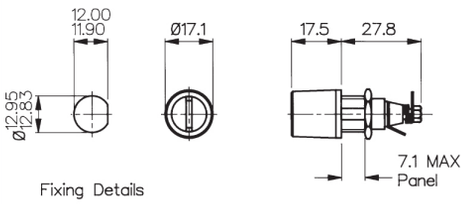
Panel Mounting Touchproof, Sealed to IP66, PC1

High Profile Panel Mount



FX0345

- Sealed to IP66
- Protection Category PC1
- Fuse Size 5 x 20mm
- Screw Cap/Screwdriver Release
- 6.3A, 250V

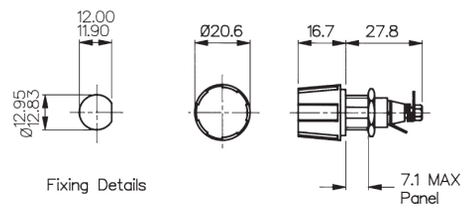


High Profile Panel Mount



FX0365

- Sealed to IP66
- Protection Category PC1
- Fuse Size 5 x 20mm
- Screw Cap/Hand Release
- Large Cap for Easy Grip
- 6.3A, 250V



Specifications	FX0345, FX0345/A	FX0365, FX0365/A
Fuse Size:	5 x 20mm	5 x 20mm
Fuse Carrier:	Screw cap/Screwdriver release	Screw cap/Screwdriver release
Terminations:	Solder tags	Solder tags
Max. Rating:	6.3A, 250V	6.3A, 250V
Max. Power Dissipation:	4W (@ 23°C)	4W (@ 23°C)
Insulation Resistance:	>10³MΩ @ 500V DC	>10³MΩ @ 500V DC
AC Breakdown:	>3.5kV @ 50Hz	>3.5kV @ 50Hz
Contact Resistance:	<10mΩ	<10mΩ
Operating Temp:	–20°C to +85°C (ambient air temp + fuse temp rise)	–20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings:		
Body & Cap:	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94V-0 rated
Spacer:	Glass Filled Nylon UL94HB rated	Glass Filled Nylon UL94HB rated
Insulating Sleeve:	Nylon UL94V-0 rated	Nylon UL94V-0 rated
Contacts:	Brass, Silver Plated	Brass, Silver Plated
Sealing:	Protection Classification IP66 to EN60529:1992+A2:2013 Retains sealing integrity with cap removed since they are both panel and barrier sealed	
Variants:	/A Silicone 'O' ring, Op. Temp. –55°C to +85°C	/A Silicone 'O' ring, Op. Temp. –55°C to +85°C
RoHS	Compliant	Compliant

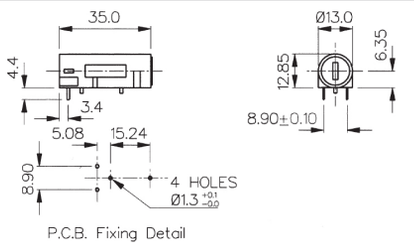
PCB Mounting PC1, PC2 and PC3

PCB Horizontal Mount



FX0461

- Protection Category PC3
- Fuse Size 5 x 20mm
- Screw Cap/Screwdriver Release
- Captive Fuse Carrier
- PC Spills
- 10A, 250V (16A, 250V UL)

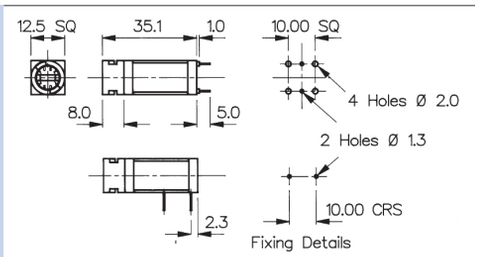


PCB Horizontal and Vertical Mount



FX0457 FX0456

- Protection Category PC2
- Fuse Sizes 5 x 20mm
- Bayonet Cap/Screwdriver Release
- 10A, 250V

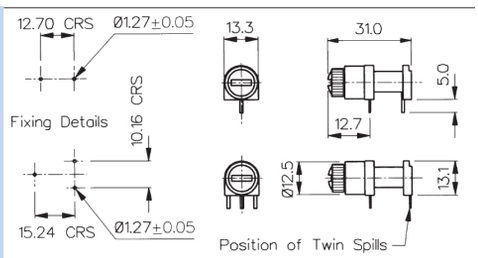


PCB Horizontal Mount



FX0330 FX0342

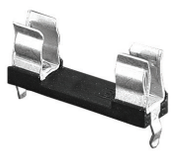
- Protection Category PC1
- Fuse Size 5 x 20mm
- Two or Three PC Spills
- Screw Cap/Hand Release
- 6.3A, 250V



Specifications	FX0461	FX0456 FX0457	FX0330 FX0342
Fuse Size:	5 x 20mm	5 x 20mm	5 x 20mm
Fuse Carrier:	Screw cap/Screwdriver release	Bayonet cap/Screwdriver release	Screw cap/Hand release
Terminations:	PC Spills	PC Spills	FX0330 - 3 PC Spills FX0342 - 2 PC Spills
Max. Rating:	10A, 250V (16A, 250V AC UL)	10A, 250V	6.3A, 250V
Max. Power Dissipation:	1.6W (@ 23°C)	2.5W (@ 23°C)	2.5W (@ 23°C)
Insulation Resistance:	>10MΩ @ 500V DC	>10^2MΩ @ 500V DC	>10^4MΩ @ 500V DC
AC Breakdown:	>2kV	4kV @ 50Hz	6kV @ 50Hz
Contact Resistance:	<10mΩ	<10mΩ	<5mΩ
Operating Temp:	–20°C to +85°C (ambient air temp + fuse temp rise)	–20°C to +85°C (ambient air temp + fuse temp rise)	–20°C to +85°C (ambient air temp + fuse temp rise)
Mouldings: Body: Cap: End Bung:	 Polyester UL94V-0 rated Nylon UL94V-0 rated	 Polyester UL94V-0 rated Nylon UL94V-0 rated Polyester UL94V-0 rated	 Glass Filled Nylon UL94V-0 rated Nylon UL94V-0 rated
Contacts:	Brass, Silver Plated	Brass, Silver Plated	Brass, Tin Plated
Approvals:	c UL us	VDE c UL us	
RoHS	Compliant	Compliant	Compliant

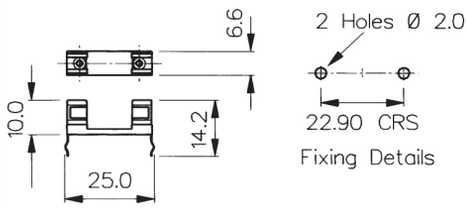
PCB and Base Mounting, PC1

PCB Mount



FX0321

- Protection Category PC1
- Fuse Size 5 x 20mm
- PC Spills
- 6.3A, 250V

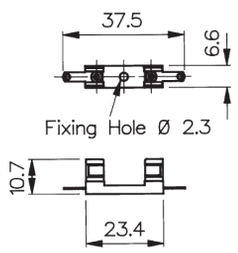


Base Mount



FX0267

- Protection Category PC1
- Fuse Size 5 x 20mm
- Solder Tags
- 6.3A, 250V

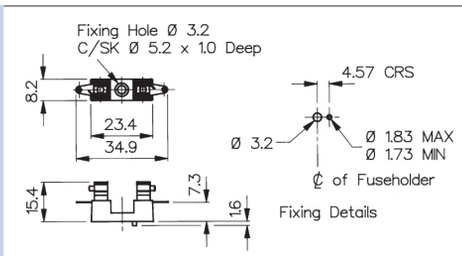


Base Mount



FX0360

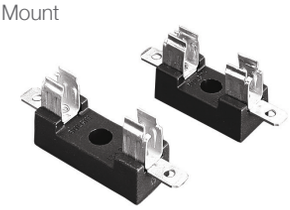
- Protection Category PC1
- Fuse Size 5 x 20mm
- Solder Tags
- 6.3A, 250V



Specifications	FX0321	FX0267	FX0360
Fuse Size:	5 x 20mm	5 x 20mm	5 x 20mm
Terminations:	PC Spills	Solder tags	Solder tags
Max. Rating:	6.3A, 250V	6.3A, 250V	6.3A, 250V
Insulation Resistance:	$>10^5$MΩ @ 500V DC	$>10^5$ MΩ @ 500V DC	$>10^4$ MΩ @ 500V DC
AC Breakdown:	7kV @ 50Hz (Clip to clip)	1.5kV @ 50Hz	2kV @ 50Hz
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Operating Temp: (ambient air temp + fuse temp rise)	–20°C to +85°C	–20°C to +85°C	–20°C to +85°C
Base Material:	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94V-0 rated	Glass Filled Nylon UL94HB rated
Contacts:	Phospher Bronze, Tin Plated	Phospher Bronze, Tin Plated	Phospher Bronze, Tin Plated
Accessories:	P.No. 12760 (See page 537)	P.No. 12760 (See page 537)	
RoHS	Compliant	Compliant	Compliant

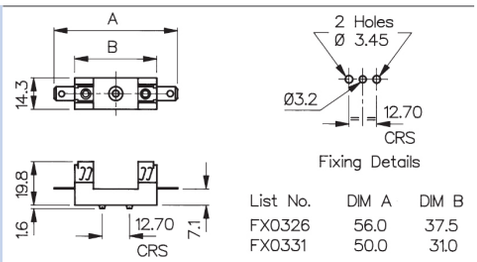
Base Mounting, PC1

Base Mount



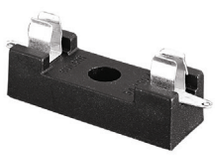
FX0326 FX0331

- Protection Category PC1
- Fuse Sizes:
  6.3 x 32mm (FX0326)
  6.3 x 25mm (FX0331)
- Solder Tags
- 13A, 250V



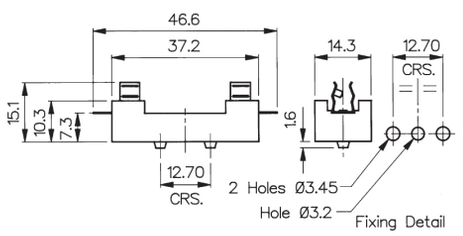
List No.	DIM A	DIM B
FX0326	56.0	37.5
FX0331	50.0	31.0

Base Mount



FX0327

- Protection Category PC1
- Fuse Size 6.3 x 32mm
- Solder Tags
- 5A, 250V



Specifications	FX0326, FX0331	FX0327
Fuse Size:	FX0326 - 6.3 x 32mm FX0331 - 6.3 x 25mm	6.3 x 32mm
Terminations:	6.3 series tabs	Solder tags
Max. Rating:	13A, 250V	5A, 250V
Insulation Resistance:	$>10^4$ MΩ @ 500V DC	$>10^5$ MΩ @ 500V DC
A.C. Breakdown:	5kV @ 50Hz	5kV @ 50Hz
Contact Resistance:	<5mΩ	<10mΩ
Operating Temp: (ambient air temp + fuse temp rise)	–20°C to +85°C	–20°C to +85°C
Base Material:	Glass Filled Polyester UL94V-0 rated	Glass Filled Polyester UL94V-0 rated
Contacts:	Clips: Phospher Bronze, Tin Plated Tabs: Brass, Tin Plated	Phospher Bronze, Tin Plated
RoHS	Compliant	Compliant

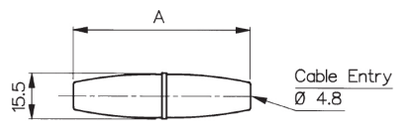
Inline PC1 and Inline Sealed to IP66, PC1

Inline



FX0180, FX0280, FX0380

- Protection Category PC1
- Fuse Sizes 5 x 20mm, 6.3 x 25mm and 6.3 x 32mm
- Screw Terminal (Solder to order)
- 10A, 50V (250V Inaccessible)
- UL Approved (Black Only)
- Clear or black



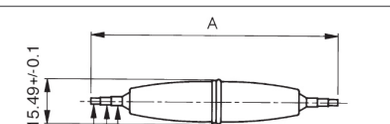
List No.	DIM A
FX0180	60.3
FX0280	54.5
FX0380	48.6

Inline



FX0185, FX0285, FX0385

- Sealed to IP66
- Protection Category PC1
- Fuse Sizes 5 x 20mm, 6.3 x 25mm and 6.3 x 32mm
- Screw Terminal (Solder to order)
- 10A, 50V (250V Inaccessible)
- UL Approved (Black Only)
- Clear or black



List No	DIM A
FX0185	91.0
FX0285	85.2
FX0385	78.7 +/-0.9

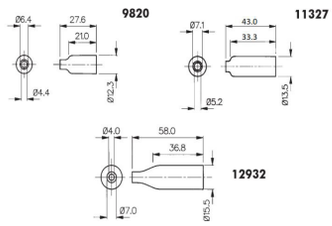
Specifications	**FX0180/Colour, FX0280/Colour, FX0380/Colour**	**FX0185/Colour, FX0285/colour, FX0385/Colour**
Fuse Size:	5 x 20mm FX0380 6.3 x 25mm FX0280 6.3 x 32mm FX0180	5 x 20mm FX0385 6.3 x 25mm FX0285 6.3 x 32mm FX0185
Cable Acceptance:	1mm² conductor (max.)	1mm2 conductor (max.) 1mm to 2.64mm overall diameter Stepped grommet: Stage 1: 1.00mm to 1.40mm Stage 2: 1.50mm to 1.90mm Stage 3: 2.0mm to 2.64mm
Terminations:	Screw terminal (solder to order)	Screw Terminal (solder to order)
Max. Rating:	10A, 50V (250V where inaccessible inside equipment)	10A, 50V (250V where inaccessible inside equipment)
Insulation Resistance:	$>10^5$ MΩ @ 500V DC
High Voltage Proof Test:	2kV (50Hz for 1 minute)
Contact Resistance:	<10mΩ
Operating Temp: (ambient air temp + fuse temp rise)	–20°C to +90°C	–20°C to +70°C
Sealing:		Protection Classification IP66 EN60529: 1992+A2:2013
Screw Tightening Torque	0.226Nm (2lb/in)	0.226Nm (2lb/in)
Mouldings:		
Body - Clear:	Polybutene UL94HB rated	Polybutene UL94HB rated
Body - Black:	Nylon 6 UL94V-0 rated	Nylon 6 UL94V-0 rated
Grommet:		PVC
O Ring:		Nitrile
Contacts:		
Terminals:	Brass, Nickel Plated	Brass, Nickel Plated
Grub Screw:	Stainless Steel	Stainless Steel
Approvals:	c UL us (Black version only)	c UL us (Black version only)
Colour:	Clear - no suffix, /BK - Black	Clear - no suffix, /BK - Black
RoHS	Compliant	Compliant

Insualtion Boots

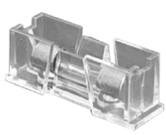


PNo. 11327 PNo. 12932 PNo. 9820

- Provide Insulation against Shock on Rear of Fuseholder
- PVC
- UL94V-0 rated flame retardant material

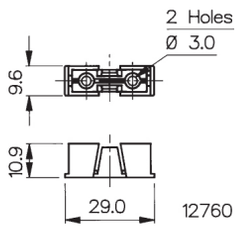


Insualtion Cover



PNo. 12760

- Provide Insulation from Live Parts on Fuseholder
- Clear
- Polycarbonate

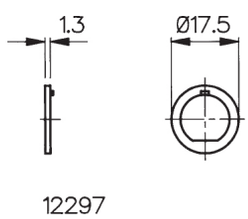


Adaptor



PNo. 12297

- Adaptor to Convert Fixing Holes
- Maintains Anti-Rotation
- Glass Filled Nylon

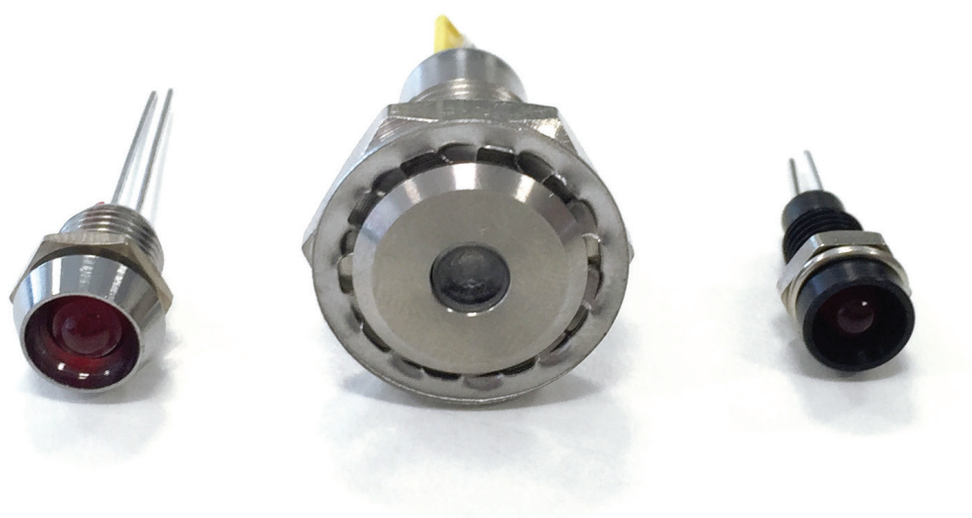


Accessories	For Use With:
P.No. 9820 (Boot)	FX0296, FX0296/1, FX0296/S
P.No. 11327 (Boot)	FX0354, FX0354/S, FX0357, FX0359, FX0454, FX0454/S, FX0455, FX0455/S, FX0458, FX0367, FX0369, FX0462, FX0463
P.No. 12932 (Boot)	FX0415, FX0415/S, FX0416, FX0416/S
P.No. 12760 (Cover)	FX0267, FX0321
Max. Working Voltage:	250V AC
Flash Tested to:	2kV AC
Material:	P.Nos. 9820, 11327, 12932: PVC - UL94V-0 P.No. 12760: Polycarbonate
P.No. 12297 (Adaptor Washer)	Adapts 'D' fixing to anti-rotation Key Fixing FX0455, FX0455/S
Material:	Glass Filled Nylon
RoHS	Compliant

This range of panel mounting LED indicators consists of many different bezel styles, types of LED's and colours. The range has developed to meet the different needs of panel design including IP66 and IP67 environmentally sealed versions for use where a front panel seal is needed.

The vandal resistant LED indicators are designed to complement the vandal resistant switches (see the Switch Section), they have similar profiles with stainless steel bodies, sealing to IP66 & 68 and are built to withstand harsh environments.

Vandal Resistant LED Indicators	539
5mm LED Indicators	541
Indicator Lights	546
Low Voltage Lampholders	553
LED Lamps and LED Lampholders	555
Indicator Lights - Sealed to IP67	556



SYMBOLS

Terminals
K 2.8, H 4.8 & C 6.3

L Wire Leads
200mm long Standard

Solid wires
W LED fitted
A LED not fitted

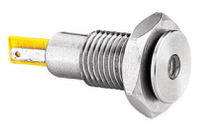
Panel hole size

Panel thickness

Temperature rating

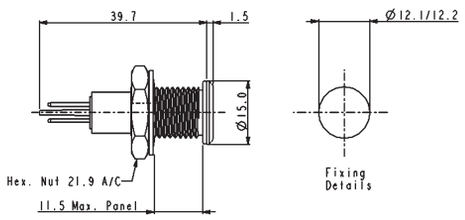
Vandal Resistant LED Indicators

Proud of Panel Profile

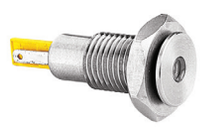


DX0505

- Solder Tag/2.8mm Tag Termination
- Sealed to IP67
- Red, Green, Yellow or Blue LED Options
- Wide Viewing Angle
- Shock and Vibration Resistant
- Stainless Steel body

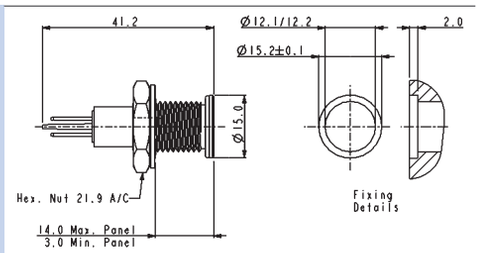


Flush Panel Profile



DX0506

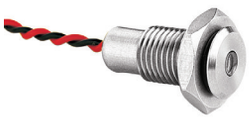
- Solder Tag/2.8mm Tag Termination
- Sealed to IP67
- Red, Green, Yellow or Blue LED Options
- Wide Viewing Angle
- Shock and Vibration Resistant
- Stainless Steel body



Specifications	DX0505/Col/Voltage	DX0506/Col/Voltage
Terminations:	Solder Tab/2.8mm Tab	Solder Tab/2.8mm Tab
Forward Voltage:	Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V	Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V
Cont. Forward Current: (max)	Red 30mA, Green 25mA, Yellow 30mA, Blue 25mA	Red 30mA, Green 25mA, Yellow 30mA, Blue 25mA
Power Dissipation:	Red 100mW, Green 105mW, Yellow 125mW, Blue 120mW	Red 100mW, Green 105mW, Yellow 125mW, Blue 120mW
Reverse Current: (@Vr = 5V)	Red 10µA max., Green 10µA max., Yellow 10µA max., Blue 50µA max.	Red 10µA max., Green 10µA max., Yellow 10µA max., Blue 50µA max.
LED Luminous Intensity:	Red 2000mcd, Green 100mcd, Yellow 400mcd, Blue 1600mcd (typ)	Red 2000mcd, Green 100mcd, Yellow 400mcd, Blue 1600mcd (typ)
Operating Temp. Range:	–40°C to +80°C	–40°C to +80°C
Storage Temperature:	–40°C to +85°C	–40°C to +85°C
Sealing (Front of panel):	Protection Classification IP67 to EN60529:1992+A2:2013	Protection Classification IP67 to EN60529:1992+A2:2013
Materials		
Body:	Stainless Steel	Stainless Steel
Lens:	Polycarbonate UL94V-0	Polycarbonate UL94V-0
O Ring (external):	Nitrile	Nitrile
(internal):	Silicone	Silicone
Tightening Torque	0.5Nm - 0.9Nm (4.4lbf.in. - 8.0lbf.in.)	0.5Nm - 0.9Nm (4.4lbf.in. - 8.0lbf.in.)
Thread Size:	M12 x 1.25-6g	M12 x 1.25-6g
LED Colours:	/RD (Red), /GN (Green), /YL (Yellow) /BL (Blue), with colour coded insulator	/RD (Red), /GN (Green), /YL (Yellow) /BL (Blue), with colour coded insulator
LED Voltage:	/12 (12V DC), /24 (24V DC) or /00 (no ballast resistor)	/12 (12V DC), /24 (24V DC) or /00 (no ballast resistor)
RoHS	Compliant	Compliant

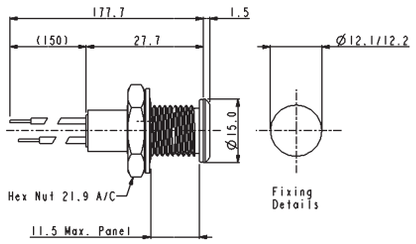
Vandal Resistant LED Indicators

Proud of Panel Profile

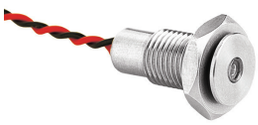


DX0507

- Flying Lead Termination
- Sealed to IP67
- Red, Green, Yellow or Blue LED Options
- Wide Viewing Angle
- Shock and Vibration Resistant
- Stainless Steel body

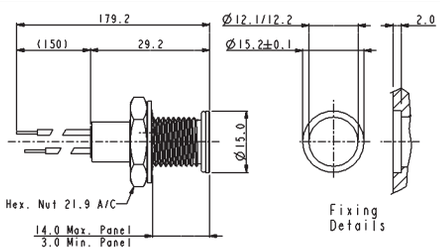


Flush Panel Profile



DX0508

- Flying Lead Termination
- Sealed to IP67
- Red, Green, Yellow or Blue LED Options
- Wide Viewing Angle
- Shock and Vibration Resistant
- Stainless Steel body



Specifications	DX0507/Col/Voltage	DX0508/Col/Voltage
Terminations:	Flying Leads	Flying Leads
Forward Voltage:	Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V	Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V
Cont. Forward Current: (max)	Red 30mA, Green 25mA, Yellow 30mA, Blue 25mA	Red 30mA, Green 25mA, Yellow 30mA, Blue 25mA
Power Dissipation:	Red 100mW, Green 105mW, Yellow 125mW, Blue 120mW	Red 100mW, Green 105mW, Yellow 125mW, Blue 120mW
Reverse Current: (@Vr = 5V)	Red 10µA max., Green 10µA max., Yellow 10µA max., Blue 50µA max.	Red 10µA max., Green 10µA max., Yellow 10µA max., Blue 50µA max.
LED Luminous Intensity:	Red 2000mcd, Green 100mcd, Yellow 400mcd, Blue 1600mcd (typ)	Red 2000mcd, Green 100mcd, Yellow 400mcd, Blue 1600mcd (typ)
Operating Temp. Range:	–40°C to +80°C	–40°C to +80°C
Storage Temperature:	–40°C to +85°C	–40°C to +85°C
Sealing (Front of panel):	Protection Classification IP67 to EN60529:1992+A2:2013	Protection Classification IP67 to EN60529:1992+A2:2013
Materials		
Body:	Stainless Steel	Stainless Steel
Lens:	Polycarbonate UL94V-0	Polycarbonate UL94V-0
O Ring (external):	Nitrile	Nitrile
(internal):	Silicone	Silicone
Tightening Torque	0.5Nm - 0.9Nm (4.4lbf.in. - 8.0lbf.in.)	0.5Nm - 0.9Nm (4.4lbf.in. - 8.0lbf.in.)
Thread Size:	M12 x 1.25-6g	M12 x 1.25-6g
LED Colours:	/RD (Red), /GN (Green), /YL (Yellow) /BL (Blue), with colour coded insulator	/RD (Red), /GN (Green), /YL (Yellow) /BL (Blue), with colour coded insulator
LED Voltage:	/12 (12V DC), /24 (24V DC) or /00 (no ballast resistor)	/12 (12V DC), /24 (24V DC) or /00 (no ballast resistor)
RoHS	Compliant	Compliant

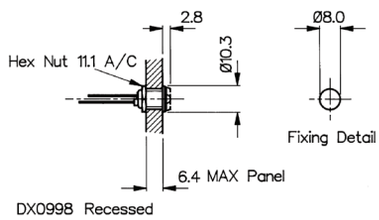
5mm LED Indicators

Chrome Plated Brass Bezel



DX0998

- Chrome Plated Brass Bezel
- Recessed Style
- Choice of LED Types and Colours

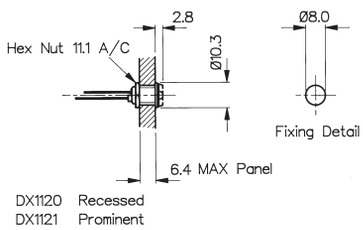


Nylon Bezel



DX1120 DX1121

- Glass Filled Nylon Bezel
- Prominent or Recessed Style
- Choice of LED Types and Colours



Specifications	DX0998 Colour/Options	DX1120, DX1121/Colour/Options
Bezel Material:	Brass, Chrome Plated	Glass Filled Nylon
Style:	Recessed (DX0998)	Recessed (DX1120) Prominent (DX1121)
Operating Temp. Range:	Dependent on LED used	Dependent on LED used
Storage Temperature:	Dependent on LED used	Dependent on LED used
LED Colours:	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue), /TR (Tri Colour), /D1 (Dual Colour - Red/Green), /D2 (Dual Colour - Red/Amber), /D3 (Dual Colour - Green/Amber)	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue), /TR (Tri Colour), /D1 (Dual Colour - Red/Green), /D2 (Dual Colour - Red/Amber), /D3 (Dual Colour - Green/Amber)
LED Options:	/02 (Flashing, Green or Red only)	/02 (Flashing, Green or Red only)
Thread Size:	0.312” x 32TPI	0.312” x 32TPI
RoHS	Compliant	Compliant

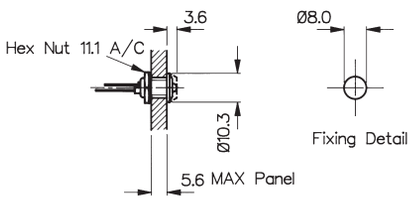
See Page 544 for LED options and specifications*

Aluminium Bezel - IP66 Sealed



DX1090 DX1092

- Aluminium Bezel, Black
- Anodised Finish
- IP66 Front Panel Sealed
- Prominent or Recessed Style
- Choice of LED Types and Colours



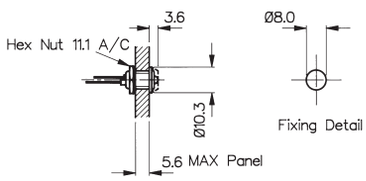
DX1090 Recessed
DX1092 Prominent

Aluminium Bezel - IP66 Sealed



DX1091 DX1093

- Aluminium Bezel, Clear
- Anodised Finish
- IP66 Front Panel Sealed
- Prominent or Recessed Style
- Choice of LED Types and Colours



DX1091 Recessed
DX1093 Prominent

Specifications	DX1090, DX1092/Colour/Options	DX1091, DX1093/Colour/Options
Materials:	Aluminium - Black	Aluminium - Clear
Style:	Recessed (DX1090) Prominent (DX1092)	Recessed (DX1091) Prominent (DX1093)
Operating Temp. Range:	Dependent on LED used	Dependent on LED used
Storage Temperature:	Dependent on LED used	Dependent on LED used
Sealing (Front of panel):	Protection Classification IP66 to EN60529:1992+A2:2013	Protection Classification IP66 to EN60529:1992+A2:2013
Tightening Torque:	0.056 - 0.064Nm (8 - 9ozf.in.)	0.056 - 0.064Nm (8 - 9ozf.in.)
Lead Solder Time:	260°C for 5 seconds max.	260°C for 5 seconds max.
LED Colours:	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue), /TR (Tri Colour), /D1 (Dual Colour - Red/Green), /D2 (Dual Colour - Red/Amber), /D3 (Dual Colour - Green/Amber)	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue), /TR (Tri Colour), /D1 (Dual Colour - Red/Green), /D2 (Dual Colour - Red/Amber), /D3 (Dual Colour - Green/Amber)
Thread Size:	0.312” x 32TPI	0.312” x 32TPI
RoHS	Compliant	Compliant

See Page 544 for LED options and specifications

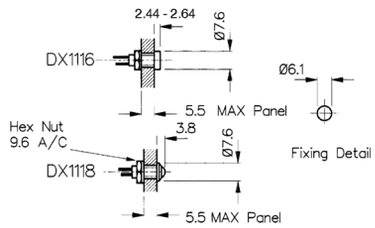
4mm LED Indicators

Chrome Plated Brass Bezel



DX1116 DX1118

- Chrome Plated Brass Bezel
- Prominent or Recessed Style
- Choice of LED Types and Colours

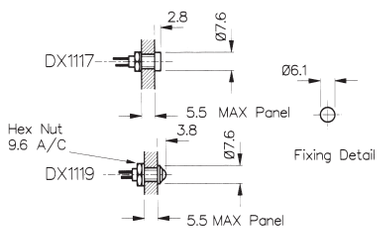


Black Nickel Pated Brass Bezel



DX1117 DX1119

- Aluminium, Black Anodised Bezel
- Prominent or Recessed Style
- Choice of LED Types and Colours



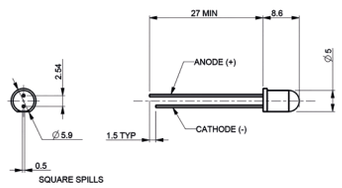
Specifications	DX1116, DX1118/Colour	DX1117, DX1119/Colour
Bezel Materials:	Brass, Chrome Plated	Aluminium, Black Anodised
Style:	Recessed (DX1116) Prominent (DX1118)	Recessed (DX1117) Prominent (DX1119)
Operating Temp. Range:	Dependent on LED used	Dependent on LED used
Storage Temperature:	Dependent on LED used	Dependent on LED used
Lead Solder Time:	260°C for 5 seconds max.	260°C for 5 seconds max.
LED Colours:	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue)	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue)
RoHS	Compliant	Compliant

See Page 545 for LED specifications*

5mm LED options

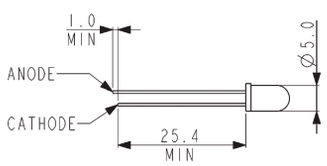
5mm LEDs STANDARD

Specification	Red	Green	Yellow	Blue
Luminous Intensity @20mA:	25mcd	20mcd	20mcd	21mcd
Forward voltage:	2.0V	2.0V	2.1V	3.5V
Cont. Forward Current (max):	30mA	25mA	30mA	30mA
Power Dissipation:	105mW (max) @20°C Ambient			120mW
Reverse Current:	10µA	10µA	10µA	50µA
Reverse Voltage:	5V (max)	5V (max)	5V (max)	5V (max)
Operating Temp:	–40°C to +85°C			–20°C to +80°C
Part No:	/RD	/GN	/YL	/BL



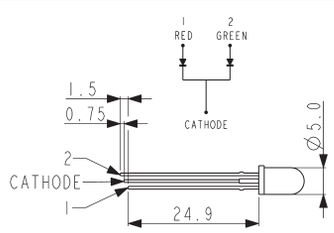
5mm LEDs FLASHING

Specification	Red	Green
Luminous Intensity @20mA:	1.2mcd	20mcd
Forward voltage:	2.0-15.0V	2.0V
Cont. Forward Current (max):	10-30mA	25mA
Power Dissipation:	200mW (max) @ 20°C ambient	
Flash Frequency @ 3V supply:	2.2Hz (typ)	
Operating Temp:	0°C to +70°C	
Part No:	/RD/02	/GN/02



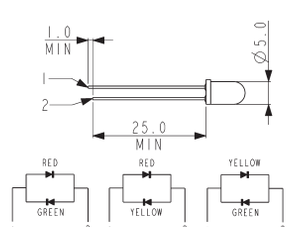
5mm LEDs TRI COLOUR

Specification	Red/Green/Amber
Luminous Intensity @20mA:	2.5mcd
Forward voltage:	2.4V
Cont. Forward Current (max):	30mA (max)
Power Dissipation:	150mW (max) @ 20°C Ambient
Reverse Current:	100µA
Reverse Voltage:	5V (max)
Operating Temp:	–40°C to +70°C
Part No:	/TR



5mm LEDs DUAL COLOUR

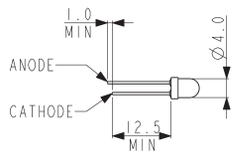
Specifications	Red/Green	Red/Amber	Green/Amber
Luminous Intensity:	4.5/5mcd	4.5/4mcd	4/5mcd
Forward voltage:	2.2V	2.2V	2.2V
Cont. Forward Current:	30mA/30mA	30mA/20mA	30mA/20mA
Power Dissipation:	100mW/100mW	100mW/60mW	100mW/60mW
Reverse Current:	100mA	100mA	100mA
Reverse Voltage:	5V (max)	5V (max)	5V (max)
Operating Temp:		–40°C to +85°C	
Part No:	/D1	/D2	/D3



4mm LED Options

4mm LEDs Standard

Specifications	Red	Green	Yellow	Blue
Luminous Intensity @10mA:	2.5mcd	2.5mcd	2.5mcd	50mcd
Forward voltage:	2.0V	2.1V	2.0V	3.8V
Cont. Forward Current (max):	30mA	30mA	20mA	30mA
Power Dissipation (max) @ 20°C Ambient:	100mW	100mW	85mW	120mW
Reverse Current:	10µA	10µA	10µA	50µA
Reverse Voltage:	5V (max)	5V (max)	5V (max)	5V (max)
Part No:	/RD	/GN	/YL	/BL



Part No Breakdown

DXxxxx	/	XX	/	XX

Bezel Type

LED Colour
RD = Red
GN = Green
YL = Yellow
BL = Blue
D1 = Dual Colour - 5mm (Red/Green)
D2 = Dual Colour - 5mm (Red/Amber)
D3 = Dual Colour - 5mm (Green/Amber)
TR = Tri Colour - 5mm (Red/Green/Amber)

LED Options
Blank = Standard
02 = Flashing - 5mm (Red or Green only)

Example:
DX1092/RD/02 = Black Aluminum IP66 Prominent Bezel, with Red flashing LED

Key Features

- Neon, LED, mains LED or filament lamp
- Bezel sizes from 6.7 to 16.3mm diameter
- Red, amber, green, blue and clear lenses
- Red, yellow, green, blue and white LEDs
- Wide choice of styles

Colours and voltages:

NEON



Available with Red, Amber, Green or Clear lenses
100/130V (marked 110V), 200/250V (marked 230V)

DC LED



Red, Yellow, Green, Blue, White
2.0/2.2V Resistors for other voltages available.

AC MAINS LED



Red, Yellow, Green, Blue, White
110-230V AC operation.

FILAMENT



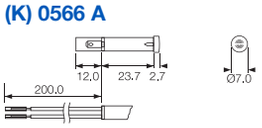
Available with Red, Amber, Green, Clear or Blue lenses
6V, 12/14V, 24/28V.

Terminal	Type	Sealed	Illumination	Colour	Voltage	Options
K 2.8 **L**	**(K) 0566 A** 	∅ 6.0 2.0 max p. 340	**N** **L** **M**	Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear LED **R** Red **Y** Yellow **G** Green **B** Blue	**1** LED No Resistor **2** 125V Neon **3** 250V Neon **4** 6VDC LED **5** 12VDC LED **6** 24VDC LED **7** 12/14V Filament **8** 24/ 28V Filament **9** 125/250VAC LED	**C** Chrome Bezel Finish
K 2.8 **L**	**(K) 0566 B** 	∅ 6.0 2.0 max p. 340	**N** **L** **M**			
K 2.8 **L**	**(K) 0566 C** 	∅ 6.0 2.0max	**N** **L** **M**			
C 6.3	**(C) 0145 AA** 	∅ 5.8 3.0max p. 340	**N** **L** **M** **F**			
L **W**	**(L) 1041 00** 	∅ 6.3 6.3max p. 340	**N** **L** **F**			
L **W**	**(L) 1045 00** 	∅ 6.3 10.0max p. 340	**N** **L** **M** **F**			

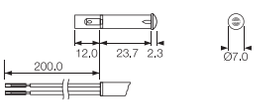
Terminal	Type	Sealed	Illumination	Colour	Voltage	Options
L **W**	**(L) 0245 00** 	∅ 7.1 6.3 max p. 340	**N** **L** **M** **F**	Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear LED **R** Red **Y** Yellow **G** Green **B** Blue	**1** LED No Resistor **2** 125V Neon **3** 250V Neon **4** 6VDC LED **5** 12VDC LED **6** 24VDC LED **7** 12/14V Filament **8** 24/ 28V Filament **9** 125/250Vac LED	**C** Chrome Bezel Finish
L	**L 2950 00** 	∅ 8.0 0.8-1.6 p. 340	**N** **L** **M** **F**			
L **C** 6.3	**(L) 0195 BB** 	∅ 8.0 0.8-3.0 p. 340	**N** **F**			
L	**L 2951 00** 	∅ 8.0 0.8-1.6 p. 340	**N** **L** **M** **F**			
L **H** 4.8	**H) 0568 A(*)** 	∅ 8.0 0.8-3.5 p. 340	**N** **L** **F**			
L **H** 4.8	**(H) 0568 B(*)** 	∅ 8.0 0.8-3.5 p. 340	**N** **L** **F**			

Dimensions

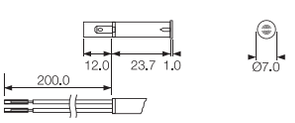
(K) 0566 A



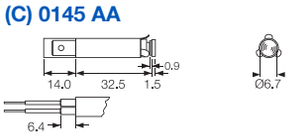
(K) 0566 B



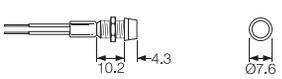
(K) 0566 C



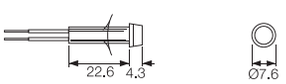
(C) 0145 AA



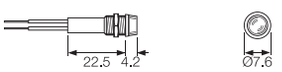
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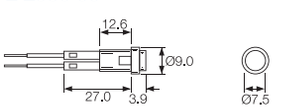
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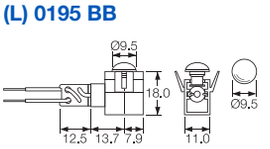
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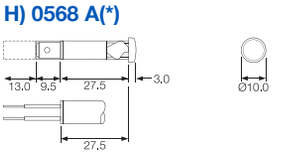
L 2950 00



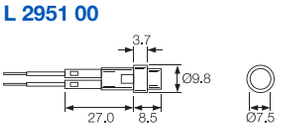
(L) 0195 BB



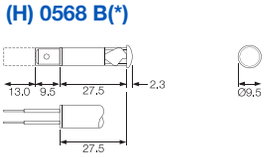
H) 0568 A(*)



L 2951 00



(H) 0568 B(*)



Key Features

- Neon, LED, mains LED or filament lamp
- Bezel sizes from 6.7 to 16.3mm diameter
- Red, amber, green, blue and clear lenses
- Red, yellow, green, blue and white LEDs
- Wide choice of styles

Colours and voltages:

NEON



Available with Red, Amber, Green or Clear lenses
100/130V (marked 110V),
200/250V (marked 230V)

DC LED



Red, Yellow, Green, Blue, White
2.0/2.2V Resistors for other voltages available.

AC MAINS LED



Red, Yellow, Green, Blue, White
110-230V AC operation.

FILAMENT



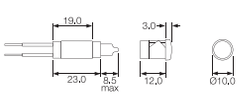
Available with Red, Amber, Green, Clear or Blue lenses
6V, 12/14V, 24/28V.

Terminal	Type	Illumination	Colour	Voltage	Options	Panel	Approval
L K 2.8 H 4.8 C 6.3	(C) 0273 00 	N L M F	Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear	**1** LED No Resistor **2** 125V Neon **3** 250V Neon **4** 6VDC LED **5** 12VDC LED **6** 24VDC LED **7** 12/14V Filament **8** 24/ 28V Filament **9** 125/250VAC LED	**C** Chrome Bezel Finish	∅ 9.0 2.0 max p. 340	
L K 2.8 H 4.8 C 6.3	(C) 0278 00 	N L M F				∅ 9.0 2.0 max p. 340	
L K 2.8 H 4.8 C 6.3	(C) 0276 AA 	N L M F				∅ 9.5 0.8-2.8 p. 340	
L K 2.8 H 4.8 C 6.3	(C) 0275 00 	N L M F	LED **R** Red **Y** Yellow **G** Green **B** Blue			∅ 10.0 12.0 p. 340	
L K 2.8 H 4.8 C 6.3	(C) 0275 00 	N L M F				∅ 10.0 11.5 max p. 340	

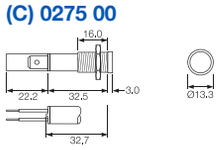
Terminal	Type	Illumination	Colour	Voltage	Options	Panel	Approval
L K 2.8 H 4.8 C 6.3	(C) 0276 00 	N L M F	Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear LED **R** Red **Y** Yellow **G** Green **B** Blue	**1** LED No Resistor **2** 125V Neon **3** 250V Neon **4** 6VDC LED **5** 12VDC LED **6** 24VDC LED **7** 12/14V Filament **8** 24/ 28V Filament **9** 125/250VAC LED	**C** Chrome Bezel Finish	∅ 10.0 2.8 max p. 340	
L K 2.8 H 4.8 C 6.3	(C) 0277 00 	N L M F				∅ 10.0 12 max p. 340	
L K 2.8 H 4.8 C 6.3	(C) 0273 LL 	N L M F				∅ 10.0 0.6-2.0 p. 340	
L K 2.8 H 4.8 C 6.3	(C) 2820 00 	N L M F				∅ 12.0 0.75-2.0 p. 340	
L K 2.8 H 4.8 C 6.3	(C) 2821 00 	N L M F				∅ 12.0or12.7 ø12.0 = 0.8-2.5 ø12.7 = 1.1-2.5 p. 340	
L K 2.8 H 4.8 C 6.3	(C) 0586 00 	N L M F				∅ 12.5 0.8-1.5 p. 340	

Dimensions

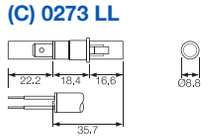
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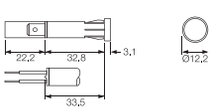
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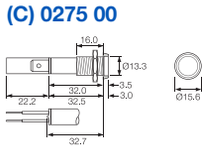
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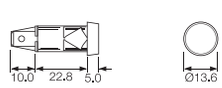
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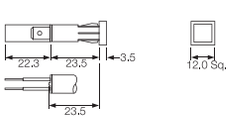
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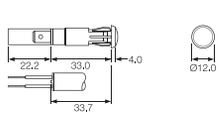
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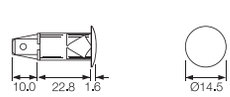
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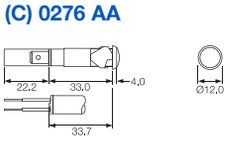
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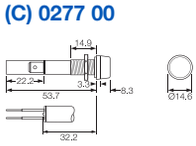
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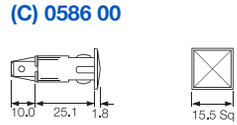
(C) 0276 AA



(C) 0277 00



(C) 0586 00



Key Features

- Neon, LED, mains LED or filament lamp
- Bezel sizes from 6.7 to 16.3mm diameter
- Red, amber, green and clear lenses
- Red, yellow, green, blue and white LEDs
- Wide choice of styles

Colours and voltages:

NEON



Available with Red, Amber, Green or Clear lenses
100/130V (marked 110V),
200/250V (marked 230V)

DC LED



Red, Yellow, Green, Blue, White
2.0/2.2V Resistors for other voltages available.

AC MAINS LED



Red, Yellow, Green, Blue, White
110-230V AC operation.

FILAMENT



Available with Red, Amber, Green, Clear or Blue lenses
6V, 12/14V, 24/28V.

Terminal	Type	Illumination	Colour	Voltage	Options	Panel	Approval
L K 2.8 H 4.8 C 6.3	(C) 2870 00 	N L M F	Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear	**1** LED No Resistor **2** 125V Neon **3** 250V Neon **4** 6VDC LED **5** 12VDC LED **6** 24Vdc LED **7** 12/14V Filament **8** 24/ 28V Filament **9** 125/250VAC LED	**C** Chrome Bezel Finish	∅ 12.7 0.75-2.0 P. 340	
L K 2.8 H 4.8 C 6.3	C) 0589 00 	N L M F				∅ 12.7 0.8-1.5 p. 340	
L	L 0081 00 	N				∅ 12.7 9.5 p. 340	
L K 2.8 H 4.8 C 6.3	(C) 0177 00 	N L M F	LED **R** Red **Y** Yellow **G** Green **B** Blue			∅ 12.7 12.0max p. 340	
L K 2.8 H 4.8 C 6.3	(C) 0067 00 	N L M F				∅ 12.7 1.14 max p. 340	
L C 6.3	(C) 0180AA 	N L F				∅ 12.7 19.0 max p. 340	

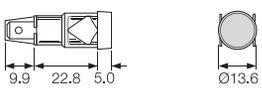
Indicator Lights

Neon, LED and Filament Lamp

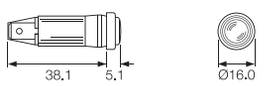
Terminal	Type	Illumination	Colour	Voltage	Options	Panel	Approval
L C 6.3	(C) 0180BB 	N L F	Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear	**1** LED No Resistor **2** 125V Neon **3** 250V Neon **4** 6VDC LED **5** 12VDC LED **6** 24VDC LED **7** 12/14V Filament **8** 24/ 28V Filament **9** 125/250VAC LED	**C** Chrome Bezel Finish	∅ 13.5 0.9-1.14 p. 340	
L K 2.8 H 4.8 C 6.3	(C) 0579 00 	N L M F	LED **R** Red **Y** Yellow **G** Green **B** Blue			∅ 14.0 2.5 max p. 340	
C 6.3	(C) 1092 	N				∅ 19.0 4.0max p. 340	

Dimensions

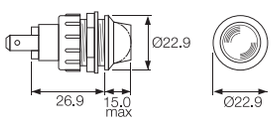
(C) 2870 00



(C) 0067 00



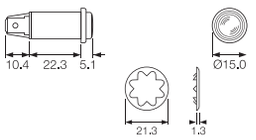
(C) 1092



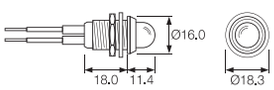
C) 0589 00



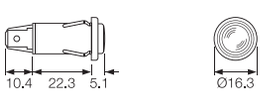
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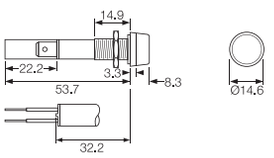
L 0081 00



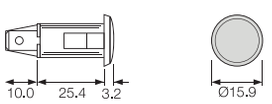
(C) 0180BB



(C) 0177 00



(C) 0579 00



Indicator Lights

Neon, LED and Filament Lamp

Key Features

- Neon, LED, mains LED or filament lamp
- Bezel sizes from 6.7 to 16.3mm diameter
- Red, amber, green and clear lenses
- Red, yellow, green, blue and white LEDs
- Wide choice of styles

Colours and voltages:

NEON



Available with Red, Amber, Green or Clear lenses
100/130V (marked 110V),
200/250V (marked 230V)

DC LED



Red, Yellow, Green, Blue, White
2.0/2.2V Resistors for other voltages available.

AC MAINS LED



Red, Yellow, Green, Blue, White
110-230V AC operation.

FILAMENT

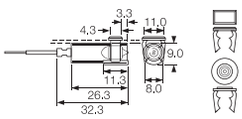


Available with Red, Amber, Green, Clear or Blue lenses
6V, 12/14V, 24/28V.

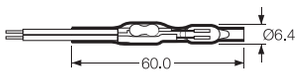
Terminal	Type	Illumination	Colour	Voltage	Options	Panel	Approval
L	L 0234 00 	N	Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear LED **R** Red **Y** Yellow **G** Green **B** Blue	**1** LED No Resistor **2** 125V Neon **3** 250V Neon **4** 6Vdc LED **5** 12VDC LED **6** 24VDC LED **7** 12/14V Filament **8** 24/ 28V Filament **9** 125/250VAC LED	**C** Chrome Bezel Finish	18.2/18.3 x 6.2/6.3* 2.0-3.5	
L	L 0233 00 	N				9.27/9.50 x 4.75* 0.71-1.62	

Dimensions

L 0234 00



L 0233 00



Neon tube, resistor and flexible lead assembly, protected by “shrunk on” transparent sleeving.

Low Voltage Lampholders

Key Features

- Up to 50V
- Red, Amber, Green, Blue and Clear
- Linestra/Philinea lamp holder

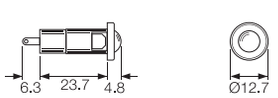
Colours and voltages:

These lampholders are suitable for up to 50V max.

Colours - Red, Amber, Green, (Clear & Blue, check availability).

Terminal	Type	Colour	Options	Panel
K 2.8	K0061 00 (LES) 	Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear	**C** Chrome Bezel Finish	∅ 9.5 0.9-1.14 T85
C 6.3	(C) 0067 00 	LED **R** Red **Y** Yellow **G** Green **B** Blue		∅ 12.7 1.14max T85
K 2.8	(K) 0062 A0 			∅ 12.7 9.6max T85
K 2.8	(K) 0062 M0 			∅ 12.7 9.6max T85
S	(S) 0095 00 			T85

K0061 00 (LES)



(K) 0062 M0



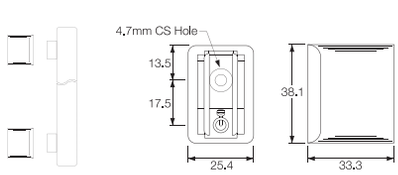
(K) 0062 A0



(C) 0067 00



(S) 0095 00



Large Low Voltage Lampholders



C1090FE - - -



P1090FL - - -

Key Features

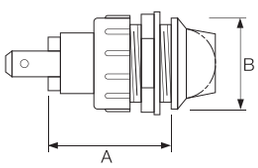
- Up to 50V
- MES or MBC bulb
- Flat and domed lens
- Brass or nylon bodies
- Red, Amber, Green, Blue and Clear lenses

Approvals and specifications

These lampholders are suitable for up to 50V max.

Colours - Red, Amber, Green,
(Clear & Blue, check availability).
Brass bodies have polished chrome finish.

Dimensions and Options



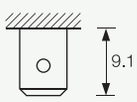
F0445 MO
P.V.C. Insulating terminal cover.



Terminal	Type	Colour	Options	Panel	Lens

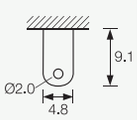
Terminal

C



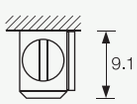
6.3 x 0.8

H



Solder

S



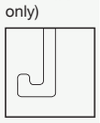
Screw and Clamp

Type

1090
MES (E10)



1091
MBC (BA9s) (C and S Terminals only)



Colour

R Red

Y Yellow

G Green

B Blue

C Clear

Options

C Chrome Bezel Finish

Panel

1090 (MES lamps)

	Panel Hole Dia	Body Material	Dim A	Dim B
A	19.0	Brass	35.0	22.0
D	19.0	Brass	30.2	22.0
E	19.0	Nylon with	30.2	22.0
		chrome bezel	30.2	22.8
G	19.0	Brass	24.6	22.0
H	19.0	Nylon with	24.6	22.0
		chrome bezel	24.6	22.8
L	25.4	Brass	26.0	31.5

1091 (MBC lamps)

	Panel Hole Dia	Body Material	Dim A	Dim B
B	19.0	Brass	36.0	22.0
C	19.0	Nylon	36.6	22.0
Q	19.0	Nylon (Chrome twin)	36.6	22.8
M	25.4	Brass	38.1	31.5

Lens

F Flat



V MES (E10)



L No lens

LED Lamps and LED Lampholders

LED Lampholders can be supplied with or without LEDs

Key Features

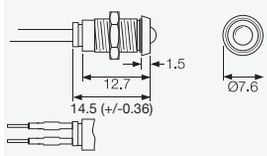
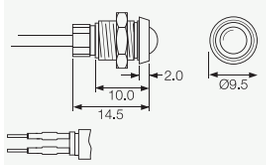
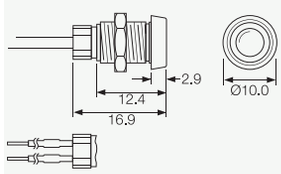
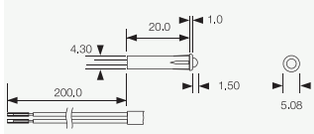
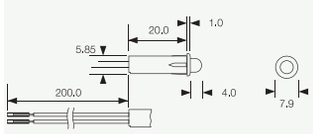
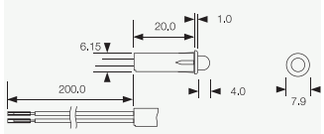
- LED lampholders
- Supplied with or without LEDs
- Black or Chrome finish

Colours and voltages:

Colours: Red, Yellow, Green and Blue LEDs
(High Intensity is standard. Option of extra super bright).

Voltages: LEDs are available for direct connection to 2.0/2.2V or 12VDC

For other voltages contact sales.

Terminal	Type	Body Colour	LED Colour	Voltage	Panel Cutout	Approval	Dimensions
W LED fitted **A** LED not fitted **L** LED & Wires fitted	**(W) 1047 00** 	**B** Black **C** Chrome	**R** Red **Y** Yellow **G** Green **B** Blue	**1** LED No Resistor **4** 6VDC LED **5** 12VDC LED **6** 24VDC LED	∅ 6.3 6.3max T105		
W LED fitted **A** LED not fitted **L** LED & Wires fitted	**(L) 1048 00** 				∅ 8.0 5.5max T105		
W LED fitted **A** LED not fitted **L** LED & Wires fitted	**(W)1050 00** 				∅ 8.0 7.0max T105		
W LED fitted **L** LED & Wires fitted	**(L) 1035 0A** 				∅ 4.5 0.9-1.6 T105	c UL us	
W LED fitted **L** LED & Wires fitted	**(L) 1036 0A** 				∅ 6.0 0.9-1.6 T105	c UL us	
W LED fitted **L** LED & Wires fitted	**(L) 1037 0A** 				∅ 6.35 0.9-1.6 T105	c UL us	

LED Lamps and LED Lampholders - Sealed to IP67

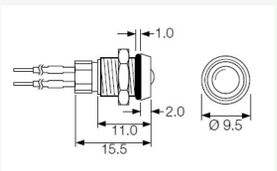
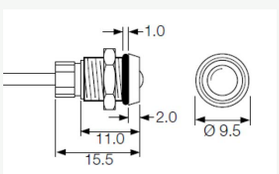
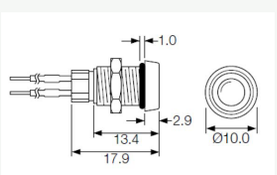
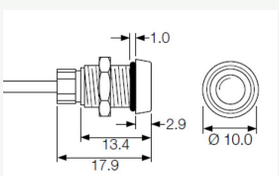
Key Features

- IP67 front bezel sealing
- LED lampholders
- Supplied with or without LEDs
- Black or Chrome finish

Colours and voltages:

Colours:
Red, Yellow Green and Blue LEDs.
(High Intensity is standard. Option of extra super bright).

Voltages:
LEDs are available for direct connection to 2.0/2.2V or 12VDC.
For other voltages contact sales.

Terminal	Type	Body Colour	LED Colour	Voltage	Panel	Dimensions
L LED & Wires fitted **W** LED fitted **A** LED not fitted	**(L) 1048 OA** 	**B** Black **C** Chrome	**R** Red **Y** Yellow **G** Green **B** Blue	**1** LED No Resistor **4** 6VDC LED **5** 12VDC LED **6** 24VDC LED	∅ 8.0 5.5max T105	**(L) 1048 OA** 
	(W) 1048 OA 					**(W) 1048 OA** 
	(L) 1050 OA 				∅ 8.0 7.0max T105	**(L) 1050 OA** 
	(W) 1050 OA 				∅ 8.0 7.0max T105	**(W) 1050 OA** 

Properties

Sealing
O-ring sealing equivalent to IP67, of both the LED to bezel, and bezel to panel is available where shown.

Polarity
The nylon base mouldings are polarity marked.

Body Material and Finish
Chromed brass or Black oxide coated brass.

Lampholders only
Items prefixed 'A' are supplied without LEDs.

LED wires or PVC covered wire leads
125mm min length wires, 6.3mm standard strip.
Alternative colours, length and strip available.

Key Features

- IP67 Panel Sealing
- Supplied complete with gaskets/'O' rings
- Neon, LED, mains LED or filament lamp
- Bezel sizes from 7.6 to 22.9mm diameter
- Red, amber, green, blue and clear lenses
- Red, yellow, green, blue and white LEDs
- Wide choice of styles

Colours and voltages:

NEON



Available with Red, Amber, Green or Clear lenses 100/130V (marked 110V), 200/250V (marked 230V)

DC LED



Red, Yellow, Green, Blue, White 2.0/2.2V Resistors for other voltages available.

AC MAINS LED



Red, Yellow, Green, Blue, White 110-230V AC operation.

FILAMENT



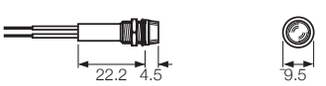
Available with Red, Amber, Green, Clear or Blue lenses 6V, 12/14V, 24/28V.

Terminal	Type	Sealed	Illumination	Colour	Voltage	Option	Panel Cutout	Approval
L	**(L) 1041 OS** 	**S** Sealed	**N** **L** **M** **F**	**R** Red **A** Amber **G** Green **B** Blue (Special) **C** Clear LED **R** Red **Y** Yellow **G** Green **B** Blue **W** White	**1** LED No Resistor **2** 125V Neon **3** 250V Neon **4** 6VDC LED **5** 12VDC LED **6** 24VDC LED **7** 12/14V Filament **8** 24/ 28V Filament **9** 125/250VAC LED	**C** Chrome Bezel Finish	∅ 6.3 5.3max	
L	**(L) 0245 OS** 		**N** **L** **M** **F**				∅ 7.1 4.6max	
L **K** 2.8 **H** 4.8 **C** 6.3	**(C) 0275 OS** 		**N** **L** **M** **F**				∅ 10.0 11.15max	
L **K** 2.8 **H** 4.8 **C** 6.3	**(C) 0277 OS** 		**N** **L** **M** **F**				∅ 10.0 11.15max	
L **K** 2.8 **H** 4.8 **C** 6.3	**(C) 0177 OS** 		**N** **L** **M** **F**				∅ 12.7 11.15max	

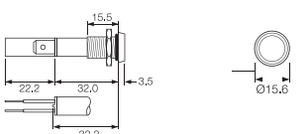
(L) 1041 OS



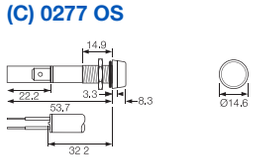
(L) 0245 OS



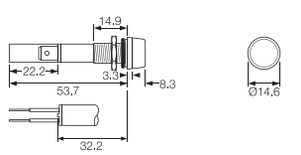
(C) 0275 OS



(C) 0277 OS



(C) 0177 OS



The majority of Arcolectric indicator lights can be supplied with alternative light sources:

Neon, Fluorescent, Filament lamp or LED

NEON and FLUORESCENT LAMPS

Colours
Available with Red, Amber, Green, Blue or Clear lenses.

Maximum striking voltages
Standard brightness types 65VAC 90VDC.
High brightness types 85VAC 135VDC.
High brightness types are usually fitted.

Life
Typically 25,000 hours (Green fluorescent lamps 20,000 hours).
(Measured to a point when the light output of the lamp is half its original level.)
The end of life for a neon lamp is not usually a sudden failure.

False signals due to long wiring
It is possible for neon or fluorescent tubes to glow when they should be off. Thefalse signal is caused by the capacitance effect of fairly long wiring to the indicator being adjacent to other live cables. This effect can be prevented in most cases by fitting a 100k resistor across the supply wires close to the indicator assembly.

MATERIALS
Moulded bodies and bases . . . . . .Nylon 6.6
Metal bodies and bezels . . . . . .Chrome plated brass (except #)
Lenses . . . . . .Polycarbonate
Terminals (most types) . . . . . .Brass (electro-tin plated)
Terminals (exceptions) . . . . . .Brass (flash silver* or nickel** plated)
Threaded metal nuts . . . . . .Brass (nickel plated on 0275/7)
Other fixings . . . . . .Call sales for details
* R9, 0061, 0062, 0430, 0480, 1090, 1091, 6030, 7030, 8630, 8580
** # 3130, 3160, 3161, 3221 have nickel plated terminals with steel screws and plated polyamide bezel trims

TEMPERATURE RATING

Authority	with Terminals	with Wire leads	
		PVC	SILICONE
European	T105°C	T105°C	T105°C
UL	T65/75°C	T65/75°C	

FILAMENT LAMPS

Colours
Available with Red, Amber, Green, Clear or Blue lenses

LEDs - DC

Colours
Red, Yellow, Green, Blue and White.

Voltage
Basic voltage 2.0/2.2V. Some items are available with integral resistors for 12V use. For details of resistors required for higher voltages, please call sales.

Current
Maximum continuous forward current 20mA

Life
>100,000hrs

LEDs - AC

Colours
Red, Yellow, Green, Blue and White.

Voltage
Rated up to 230V AC, suitable for use at 110V and 230V AC.

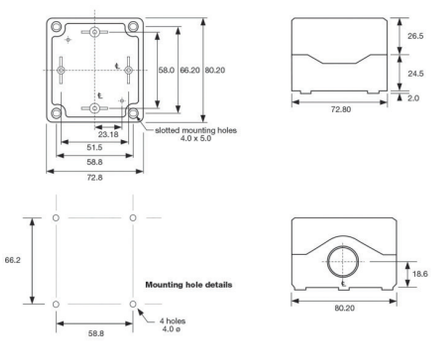
Current
<3mA

Life
>100,000hrs

BEA01S - ABS



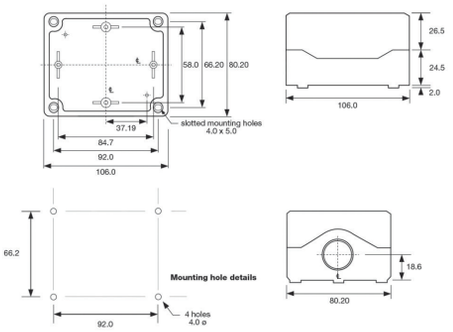
- Dimensions: 80 x 72 x 53mm
- Slotted mounting holes, 66.2 x 58.8mm
- 2 x M20 threaded knock-outs suitable for use with M20 glands
- Option for single pre-drilled 22mm Ø hole in lid
- PCB mounting posts suitable for M3 self tapping screws
- Grey or black base
- Transparent, black, grey or yellow lid



BEA02S - ABS



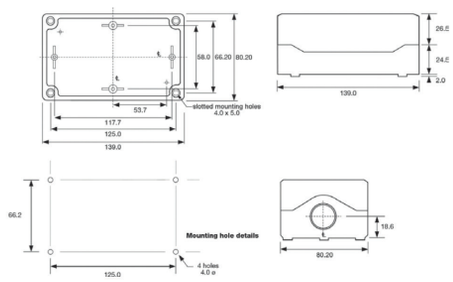
- Dimensions: 80 x 106 x 53mm
- Slotted mounting holes, 66.2 x 92.0mm
- 2 x M20 threaded knock-outs suitable for use with M20 glands
- Option for two pre-drilled 22mm Ø holes in lid
- PCB mounting posts suitable for M3 self tapping screws
- Grey or black base
- Transparent, black, grey or yellow lid



BEA03S - ABS

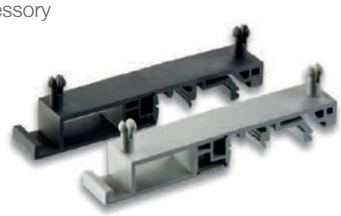


- Dimensions: 80 x 139 x 53mm
- Slotted mounting holes, 66.2 x 125mm
- 2 x M20 threaded knock-outs suitable for use with M20 glands
- Option for three pre-drilled 22mm Ø holes in lid
- PCB mounting posts suitable for M3 self tapping screws
- Grey or black base
- Transparent, black, grey or yellow lid



BE Enclosure Accessories

Combifoot rail mounting accessory



BE123456 BE123457

- Easy snap fixing to enclosure BEA01S, BEA02S & BEA03S
- Suitable for TS32 & TS35 rails
- Available in black or grey
- Part numbers:
  Grey - BE123456
  Black - BE123457

Wall mounting accessory



BE123458 BE123459

- Easy snap fixing to enclosure BEA01S, BEA02S & BEA03S
- For easy access wall mounting
- Available in black or grey
- Part numbers:
  Grey - BE123458
  Black - BE123459

Cable glands



BE123460 BE123461

- For use in pre-moulded knock-outs
- M20 thread
- Cable range 6-12mm
  Supplied with gasket
- Available in black or grey
- Part numbers:
  Grey - BE123460
  Black - BE123461

Specifications

	BEAxxx
Sealing:	IP67
Material:	ABS
Flammability rating:	UL94HB
Gasket:	TPE
Temperature rating:	–20ºC to +85ºC

Features

- **IP67 rated, dust and waterproof for short-term submersion to 1m depth**
- **ABS - UL94HB rated**
- **Threaded M20 knock-outs, premoulded areas that can be pushed out for use with M20 size cable glands**
- **Plastic lid fixing screws, corrosion resistant**
- **Captive lid screws, standard on all lids**
- **Additional pre-drilled 22mm holes in the lid may be specified, suitable for standard switches and indicators**
- **PCB mounting, mounting posts and slots for PCB as standard**
- **Self tapping screw fixing, standard feature**
- **Transparent top cover, available in clear and smoke grey**
- **Accessories:**
  - **Wall mounting brackets**
  - **Combifoot - TS32 & TS35 din rail mounting**
  - **M20 cable glands for use in knock-outs**
- **Registered design**

BE / **X**	**XXX** / **X** / **X**	**X**

Body Styles	Materials	Size	Base Colour	Lid Colour	Pre-drilled Lid Holes
	A = ABS - UL94HB	01S = 80 x 72 x 53 02S = 80 x 106 x 53 03S = 80 x 139 x 53	B = black G = grey	B = black G = grey Y = yellow T = transparent	0 = no holes 1 = with hole(s) (1 x 22mmØ Size 1, 2 x 22mmØ Size 2 & 3 x 22mmØ Size 3 Enclosures)

Examples:

BEA02SGT0 = Size 2, ABS material, grey base, transparent lid with no holes

Terms and Conditions of Sale
All orders are accepted subject to our Standard Terms & Conditions.

Health & Safety
Bulgin proprietary components are designed, manufactured, assessed and tested to comply with good commercial quality and engineering standards. They are safe and reliable in use within the vast majority of normal environments. In the interest of safety, application in certain extreme destructive or unsuitable environments must be avoided. The following restrictions are given as guidance:

- External or wet areas (exposed to rain or spray), except where designated “Sealed”.
- Atmospheres designated as “explosive”, except where designated “Gas Tight” or “Explosion Proof”.
- Highly corrosive atmospheres or subject to contamination by corrosive chemicals. (Avoid the use of corrosive acid soldering flux. Use an approved Electrical Grade).
- Atmospheres containing a high density of abrasive dust (mechanically operated components).
- Contamination with Silicone or Silicone Compounds (switches).
- Areas or levels unprotected from severe impact by heavy bodies moving in close proximity - (panel mounted components).
- Extremes of temperatures, beyond the specified limits.
- Electric supply voltage or load current above the published maximum ratings.

General
To ensure electrical safety as far as is reasonably practical, these products should be properly applied, installed and maintained by or under the supervision of competent persons in accordance with good engineering practice.

Dimensions
All dimensions are in millimetres (mm) unless otherwise stated.

The CE Marking Directive
Equipment bearing the CE mark is allowed free circulation throughout Europe. The products in this catalogue, when installed correctly, comply with the CE requirements where it relates to them.

The Low Voltage Directive
The Low Voltage Directive 2014/35/EU seeks to ensure that electrical equipment within certain limits both provides a high level of protection for European citizens and enjoys a single market in the European Union. Where applicable, Bulgin products comply with the requirements of this directive.

RoHS
These European Directives introduced environmental responsibilities for electrical and electronics equipment manufacturers. The RoHS (Restriction of use of certain Hazardous Substances) regulation (Directive 2002/95/EC) came into force July 2006. The WEEE (Waste Electrical and Electronic Equipment) regulation (Directive 2002/96/EC), came into force January 2007. The RoHS directive effectively bans the use of certain chemicals, these are defined as:

- Lead
- Cadmium
- Mercury
- Hexavalent Chromium
- Polybrominated Biphenyl (PBB) – flame retardant
- Polybrominated Diphenyl Ether (PBDE) – flame retardant (including Deca BDE)

Action has been taken to ensure all standard products meet the requirements of this directive. All packing carries RoHS compliance information as conformation.

REACH
REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) is the new system for controlling chemicals in Europe and became law in the UK on 1 June 2007. Bulgin as a manufacturer of articles, are reliant on our supply chain to ensure that the substances/articles we use, are in compliance with the EC1907/2006, REACH Regulations.

Our articles and their packaging, based on our knowledge at this point, do not contain any of the 15 substances on the SVHC Candidate List, dated 28th October 2008, nor any of the 14 substances added to the SVHC Candidate List, dated 13th January 2010, nor Acrylamide added to the SVHC Candidate List, dated 30th March 2010, according to article 59 (1, 10) of Regulation (EC) No. 1907/2006 (REACH), in a concentration above 0.1% weight by weight.

If this situation changes we confirm that this information will be passed through the supply chain in a timely manner.

Comparison Chart

Metric to AWG wire sizes

AWG	Cross Sectional Area in mm^2	Closest standard equivalent in mm^2
30	0.0503	0.05
29	0.0646	-
28	0.0804	-
27	0.102	0.1
26	0.128	0.14
25	0.163	-
24	0.205	0.2
23	0.259	0.25
22	0.325	-
21	0.412	-
20	0.519	0.5
19	0.653	-
18	0.823	0.75
17	1.04	1
16	1.31	-
15	1.65	1.5
14	2.08	-
13	2.63	2.5
12	3.13	-
11	4.15	4
10	5.27	-
9	6.62	6
8	8.35	-
7	10.6	10
6	13.3	-
5	16.8	16
4	21.2	-
3	26.7	25
2	33.6	35
1	42.4	-
0	53.4	50
2/0	67.5	70
3/0	85	95
4/0	107.2	120
5/0	135.1	150

IP Ratings Guide

The IP classification system designates the degree of protection provide by an enclosure against solid objects or water ingress.
Table I shows degrees of protection against solid objects.
Table II shows degrees of protection against water.

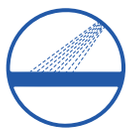
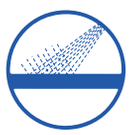
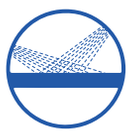
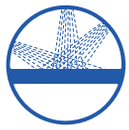


Table 1 (1st characteristic numeral)
Degree of Protection against solid objects

Digit	
	0 Non-protected
	1 Protected against a solid object greater than 50mm, such as a hand.
	2 Protected against a solid object greater than 12.5mm, such as a finger.
	3 Protected against a solid object greater than 2.5mm, such as wire or a tool.
	4 Protected against a solid object greater than 1.0mm, such as wire or thin strips.
	5 Dust-protected. Prevents ingress of dust sufficient to cause harm.
	6 Dust tight. No ingress of dust.

Degree of protection to - DIN 40050-9

Table 2 (2nd characteristic numeral)
Degree of Protection against water

Digit	
	0 Non-protected
	1 Protected against dripping water.
	2 Protected against dripping water when tilted up to 15º.
	3 Protected against spraying water at an angle of up to 60º.
	4 Protected against splashing water from any direction.
	5 Protected against jets of water from any direction.
	6 Protected against heavy seas or powerful jets of water. Prevents ingress sufficient to cause harm.
	7 Protected against the effects of temporary immersion in water.
	8 Protected against the effects of continuous immersion in water.
	69K Protected against very high pressure, high temperature wash-down test.