



PFP195 Premium Low-Loss RF Communications Cable

PCTEL's PFP195 Cable is an ideal cable for longer RF cable runs that require high flexibility as well as low signial attenuation. PFP195 cable balances flexibility and high performance, making this cable uniquely suited for jumpers or long cable runs that require low levels of attenuation.

PCTEL's PFP line of cable is specifically designed to optimize radio frequency communications from 30MHz up to 6GHz. PCTEL offers a complete line of bulk cable for large installation projects, premium pre-made cable assemblies, and a wide variety of connector types, including reverse polarity, are available for most PFP cable sizes.

Features

- Outdoor rated: UV stable jacket and water resistant construction
- Easily routed, flexible construction
- High performance, lightweight design
- Ideal for RF applications including GPS, LMR, WLAN, SCADA, PTC, etc.

Typical Attentuation By Frequency

Frequency	Attenuation (dB/100ft)
30 MHz	2.0 dB
50 MHz	2.5 dB
150 MHz	4.4 dB
220 MHz	5.4 dB
450 MHz	7.8 dB
700 MHz	9.8 dB
800 MHz	10.5 dB
900 MHz	11.1 dB
1500 MHz	14.5 dB
2000 MHz	16.9 dB
2500 MHz	19.0 dB
5800 MHz	29.9 dB

Ordering Information*

Part Number	Description
PFP195-REEL-1K	1000ft Reel of PFP195 Premium Cable

Electrical Characteristics

Capacitance (pF/ft)	Impedance (Ohms)	Velocity (%)	DC Resistance (Ω/1000ft)		Shielding Effectiveness (dB)
			Inner Conductor	Outer Conductor	
25.4	50	80	< 7.6	< 4.9	> 90

Jacket Spark (VAC)	Cut Off Frequency (GHz)	Peak Power (kW)
3000	41	2.5

Mechanical/Environmental Specifications

Bend Installation Radius (Min.)	Bend Repeated Radius (Min.)	Storage Temp.	Installation Temp.	Operating Temp.
12.7 mm	50.8 mm	-70 to +85°C -94 to +185°F	-40 to +85°C -40 to +185°F	-40 to +85°C -40 to +185°F

Construction Specifications

Cable Section	Material	Diameter
Jacket	Polyethylene	.195 in (4.95mm)
Braid	Tin Plated Copper	.139 in (3.53mm)
Outer Conductor	Aluminum Tape	.116 in (2.94mm)
Dielectric	Foam Polyethylene	.110 in (2.79mm)
Inner conductor	Solid BC	.037 in (.94mm)

*Standard configuration. Please contact PCTEL Customer Service at (800)323-9122 for custom reel size and Custom Cable Assemblies.

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