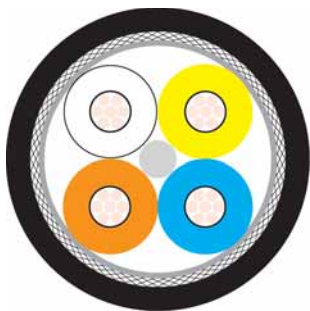


Industrial Ethernet

WK Industrial 105°C

HELUKAT® 100IND

SF/UTP, Category 5e



Type

Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Separator:
Shielding 1:
Total shielding:
Outer sheath material:
Cable external diameter:
Outer sheath colour:

Windenergy

SF/UTP 2x2x0,75 mm (stranded)

Copper, tinned (AWG 22/7)
XLPE ray cross-linking
wh, ye, bu, og
Star quad
Polyester foil over stranded bundle
Al-Foil
Cu braid, tinned
X-FRNC
app. 6,5 mm ± 0,2 mm
Black similar to RAL 9005

Electrical data

Characteristic impedance:
Conductor resistance, max.:
Insulation resistance, min.:
Loop resistance:
Mutual capacitance:
Test voltage:
Relative propagation velocity:

100 Ohm ± 15 Ohm at 1 to 100 MHz
60 Ohm/km
0,5 GOhm x km
120 Ohm/km max.
57 nF/km nom.
2 kV
69 %

Typical values

Frequency	(MHz)	10	16	62,5	100
Attenuation	(dB/100m)	6,3	8,0	16,5	21,3
Next	(db)	70,0	65,0	55,0	50,0
ACR	(db)	63,7	57,0	38,5	28,7

Technical data

Weight:
bending radius, repeated:
Operating temperature range min.:
Operating temperature range max.:
Caloric load, approx. value:
Copper weight:

app. 64 kg/km
52 mm
-40°C
+105°C *
0,89 MJ/m
34,00 kg/km

Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Category 5, Flame-retardant acc. to IEC 60332-3, Halogen-free acc. to 60754-1, Corrosiveness acc. to EN50267-2-3, UL-Syle 21281 80°C/300V

Application

HELUKAT® 100IND Category 5e WK Industrial 105°C is designed specially for demanding temperature requirements such as those encountered in wind turbines. Radiation cross-linking provides improved thermal stability as well as good oil resistance.

Part no.

802293, INDUSTRIAL ETHERNET CAT.5

Dimensions and specifications may be changed without prior notice.