

Industrial Ethernet

FRNC + PUR

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:

Fixed installation, indoor SF/UTP 2x2xAWG24/ 1 FRNC

Copper, bare (AWG 24/1)
Foam-skin-PE
wsor/or, wsgn/gn
Double core
Polyester foil over stranded bundle
-
AL-Foil + braid
FRNC
app. 5,6 mm ± 0,2 mm
blau similar to RAL 5021

Fixed installation, indoor SF/UTP 2x2xAWG24/ 1 PUR

Copper, bare (AWG 24/1)
Foam-skin-PE
wsor/or, wsgn/gn
Double core
Polyester foil over stranded bundle
-
AL-Foil + braid
PUR
app. 5,6 mm ± 0,2 mm
blau similar to RAL 5021

Electrical data

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

100 Ohm ± 15 Ohm at 1 to 100 MHz
96 Ohm/km
5 GOhm x km
192 Ohm/km max.
48 nF/km nom.
300 V
1 kV
70 %

100 Ohm ± 15 Ohm at 1 to 100 MHz
96 Ohm/km
5 GOhm x km
192 Ohm/km max.
48 nF/km nom.
300 V
1 kV
-

Typical values

frequency (MHz)	10	16	62,5	100
attenuation (dB/100m)	6,3	8,1	16,5	21,4
next (db)	50,3	47,4	38,4	35,3

Technical data

Weight: app. 45 kg/km app. 53 kg/km
bending radius, repeated: 84 mm 84 mm
Operating temperature range min.: -25°C -30°C
Operating temperature range max.: +80°C +80°C
Caloric load, approx. value: 0,43 MJ/m -
Copper weight: 22,00 kg/km 22,00 kg/km

Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Category 5, Flame-retardant acc. to IEC 60332-1-2, Halogen-free acc. to 60754-1

Application

HELUKAT® 100IND Category 5e FRNC for fixed installation indoor in halogen free and flame retardant edition.
The PUR version is excellent oil resistant, halogen free and abrasion resistant.

Part no.

805699, INDUSTRIAL ETHERNET CAT.5e

805700, INDUSTRIAL ETHERNET CAT.5e

Dimensions and specifications may be changed without prior notice.