

# 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

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

app. 53 kg/km  
84 mm  
-30°C  
+80°C  
-  
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.

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