

# Industrial Ethernet

FLEX 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:

## Mobile use SF/UTP 2x2xAWG26/7 (stranded) FRNC

Copper, bare (AWG 26/7)  
Foam-skin-PE  
wsor/or, wsgn/gn  
Double core  
-  
-  
AL-Foil + braid  
FRNC  
app. 5,6 mm ± 0,2 mm  
blau similar to RAL 5021

## Mobile use SF/UTP 2x2xAWG26/7 (stranded) PUR

Copper, bare (AWG 26/7)  
Foam-skin-PE  
wsor/or, wsgn/gn  
Double core  
-  
-  
AL-Foil + braid  
PUR  
app. 5,7 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  
142 Ohm/km  
5 GOhm x km  
284 Ohm/km max.  
47 nF/km nom.  
125 V  
0,75 kV  
75 %

100 Ohm ± 15 Ohm at 1 to 100 MHz  
140 Ohm/km  
5 GOhm x km  
280 Ohm/km max.  
50 nF/km nom.  
300 V  
1 kV  
67 %

## Typical values

Frequency (MHz)	10	16	62,5	100
Attenuation (db/100m)	9,5	12,1	24,8	32,0
Next (db)	50,3	47,2	38,4	35,3

## Technical data

Weight: app. 44 kg/km  
bending radius, repeated: 87 mm  
Operating temperature range min.: -10°C  
Operating temperature range max.: +70°C  
Caloric load, approx. value: 0,44 MJ/m  
Copper weight: 19,00 kg/km

app. 45 kg/km  
89 mm  
-30°C  
+70°C  
0,64 MJ/m  
19,00 kg/km

## Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 5e, Flame-retardant acc. to IEC 60332-1-2, Halogen-free acc. to 60754-1

## Application

HELUKAT® 100IND Category 5e FRNC flex is designed for flexible use. Thanks to the FRNC sheath, it also offers halogen free and flame retardent parameters.

The PUR version is excellent oil resistant, halogen free and abrasion resistant and is UL recognized with AWM style 21576 for 1000V/80°C and can be used in drag chain with low performance.

## Part no.

**805701**, INDUSTRIAL ETHERNET CAT.5e

**805702**, INDUSTRIAL ETHERNET CAT.5e

Dimensions and specifications may be changed without prior notice.

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