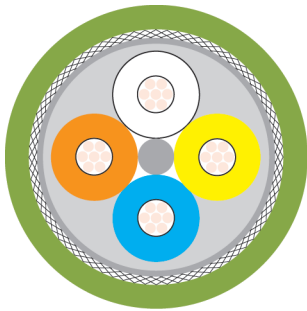


Industrial Ethernet

PROFINet Type B flexible

HELUKAT[®]

PVC + FRNC



Type Cable structure

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

Mobile use 2x2x0,75 mm (stranded)

Copper, tinned (AWG 22/7)
PE
wh, ye, bu, og
Star quad
Polyester foil over stranded bundle
PVC
Al-Foil
Cu braid, tinned
PVC
app. 6,5 mm ± 0,2 mm
Green similar to RAL 6018

Mobile use 2x2x0,75 mm (stranded)

Copper, tinned (AWG 22/7)
PE
wh, ye, bu, og
Star quad
Polyester foil over stranded bundle
FRNC
Al-Foil
Cu braid, tinned
FRNC
app. 6,5 mm ± 0,2 mm
Green similar to RAL 6018

Electrical data

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

100 Ohm ± 15 Ohm at 1 to 100 MHz
57,5 Ohm/km
0,5 GOhm x km
115 Ohm/km max.
48 nF/km nom.
2 kV

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

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)	64,0	57,4	39,0	29,0

Technical data

Weight:	app. 67 kg/km	app. 65 kg/km
bending radius, repeated:	100 mm	100 mm
Operating temperature range min.:	-40°C	-25°C
Operating temperature range max.:	+80°C	+75°C
Caloric load, approx. value:	0,32 MJ/m	0,32 MJ/m
Copper weight:	32,00 kg/km	32,00 kg/km

Norms

Applicable standards:	PROFINet Guideline + IEC 61158-2 Acc. to ISO/IEC 11801 Acc. to EN 50173 Category 5e Flame-retardant acc. to IEC 60332-3	PROFINet Guideline + IEC 61158-2 Acc. to ISO/IEC 11801 Acc. to EN 50173 Category 5e Halogen-free acc. to 60754-1 Flame-retardant acc. to IEC 60332-3 Corrosiveness acc. to EN50267-2-3 Low-smoke acc. to EN50268-2 CMG 75°C PLTC FT4 CSA FT 4
UL Style:	CMG 75°C or PLTC or AWM 21694 600V	
CSA standard:	CSA FT 4	

Application

HELUKAT[®] PROFINet Type B (flexible) Cat.5e for use on moving parts. The cables listed here correspond to the PROFINet classifications Type B for moving cables and are designed to withstand mechanical loads. The version PVC is the standard cable; the FRNC version is used for halogen free requirements.

Part no.

800654, PROFINet type B (SK)

805654, PROFINet type B (SK)

Dimensions and specifications may be changed without prior notice.