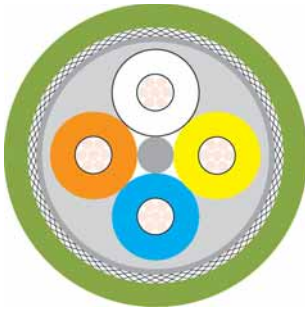


Industrial Ethernet

PROFInet Type C high flexible

HELUKAT[®]

PVC + PUR



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:

Drag chain applications 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

Drag chain applications 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
PUR
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
60 Ohm/km
0,5 GOhm x km
120 Ohm/km max.
52 nF/km nom.
1,5 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.
1,5 kV

Typical values

		10	16	62,5	100
Frequency	(MHz)				
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. 68 kg/km
bending radius, repeated: 55 mm
Operating temperature range min.: -20°C
Operating temperature range max.: +70°C
Caloric load, approx. value: 0,85 MJ/m
Copper weight: 32,00 kg/km

app. 61 kg/km
55 mm
-30°C
+75°C
0,85 MJ/m
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

UL Style:

CSA standard:

CMG 75°C or PLTC or AWM 21694 600V
CSA FT 4

Halogen-free acc. to 60754-1
Flame-retardant acc. to IEC 60332-1-2
CMX 75°C (shielded)

Application

HELUKAT[®] PROFInet Type C PVC (highly flexible) Category 5e for use on moving parts and in cable carriers. The cable listed here correspond to the PROFInet classifications Type C for moving cables and are designed to withstand mechanical loads. Thanks to the flame retardant jacket the PVC cable has UL CMG PLTC FT4 AWM 600V approval. The PUR version has UL CMX listing and offers higher values in chain and chemical resistance.

Part no.

802914, PROFInet type C (SK)

800655, PROFInet type C (SK)

Dimensions and specifications may be changed without prior notice.

Ideal accessory:

RJ45 copper connector
805401 + 805402
chapter 4, page 294

