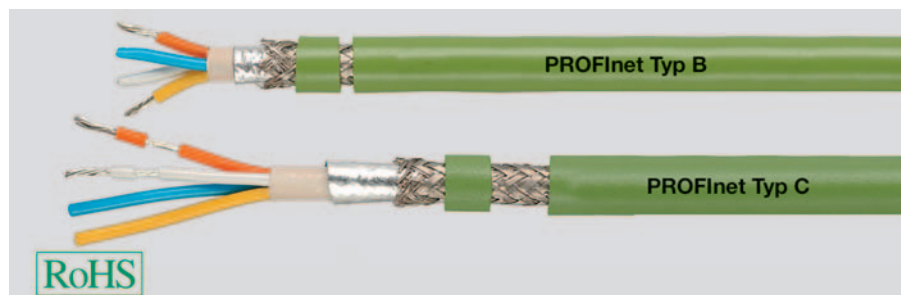


Industrial Ethernet

PROFInet Type B + C

HELUKAT®

flexible + high flexible



Type Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Shielding 1:
Inner sheath material:
Shielding 2:
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
Polyester foil, aluminium-lined
Cu braid, tinned
PVC
approx. 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
Polyester foil, aluminium-lined
Cu braid, tinned
PUR
approx. 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
62 Ohm/km
0,5 GOhm x km
124 Ohm/km max.
52 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.
0,7 kV

Typical values

Frequency (MHz)	10	16	62,5	100
Attenuation (dB/100m)	6,0	7,6	16,0	21,0
Next (db)	70,0	65,0	55,0	50,0
ACR (db)	64,0	57,4	39,0	29,0

Technical data

Weight:
bending radius, repeated:
Operating temperature range min.:
Operating temperature range max.:
Caloric load, approx. value:
Copper weight:

approx. 67 kg/km
100 mm
-40°C
+70°C
0,32 MJ/m
32,00 kg/km

approx. 61 kg/km
60 mm
-40°C
+70°C
0,85 MJ/m
32,00 kg/km

Norms

Applicable standards:

PROFInet Guideline
Acc. to ISO/IEC 11801
Acc. to EN 50173
Category 5e
Flame-retardant acc. to IEC 60332-1

PROFInet Guideline
Acc. to ISO/IEC 11801
Acc. to EN 50173
Category 5e
Halogen-free acc. to 60754-2
Flame-retardant acc. to IEC 60332-1
CMX 75°C (shielded)
-

UL Style:

CSA standard:

CMG 60°C or PLTC or AWM 20201
CSA FT 4

Application

This copper data cable, designed especially for heavy-duty industrial applications is very well suited for Ethernet applications. It ensures superior transmission properties and can be used even under most severe conditions. The lines specified here corresponds the PROFInet types B and C, i.e. they are designed for flexible and highly flexible applications, such as drag chains.

Part no.

800654, PROFInet type B (SK)

800655, PROFInet type C (SK)

Dimensions and specifications may be changed without prior notice.