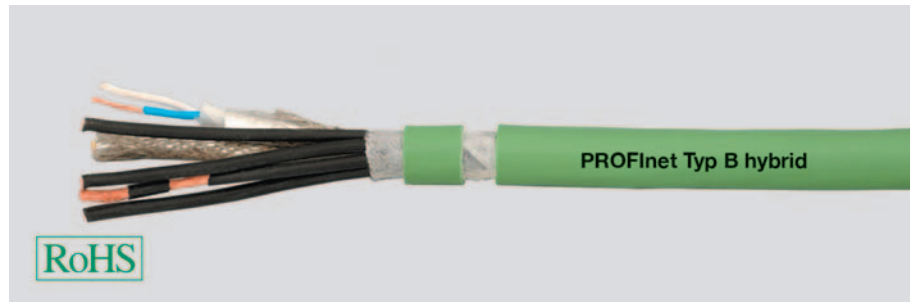


Industrial Ethernet

PROFInet Type B

HELUKAT[®]

hybrid



Type

Cable structure

Inner conductor diameter 1:
Inner conductor diameter 2:
Core insulation 1:
Core insulation 2:
Core colours 1:
Core colours 2:
Stranding element 1:
Shielding 1:
Shielding 2:
Total shielding:
Outer sheath material:
Cable external diameter:
Outer sheath colour:

Mobile use

2x2x0,75 mm (stranded)+ 4x1,5qmm

Copper, bare (AWG 22/7)
Copper, bare (AWG 16/84)
Foam-skin-PE
Foam-skin-PE
wh, ye, bu, og
Black
Double core
Polyester foil over stranded bundle
Polyester foil, aluminium-lined
Polyester foil
FRNC
approx. 10,3 mm ± 0,3 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.
2 kV

Typical values

Frequency (MHz)	10	16	62,5	100
Attenuation (dB/100m)	6,3	8,0	16,5	21,3
Next (db)	50,0	47,0	38,0	35,0
ACR (db)	43,7	39,0	21,5	13,7

Technical data

Weight: approx. 153 kg/km
bending radius, repeated: 103 mm
Operating temperature range min.: -40°C
Operating temperature range max.: +70°C
Caloric load, approx. value: 1,50 MJ/m
Copper weight: 94,00 kg/km

Norms

Applicable standards: 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
Corrosiveness acc. to EN50267-2-3
Low-smoke acc. to EN50268-2
UL Style: UL Style 21282

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 line specified here corresponds to the PROFInet type, i.e. it is designed for flexible applications with integrated energo cores.

Part no.

801651, PROFInet type B (SK)

Dimensions and specifications may be changed without prior notice.