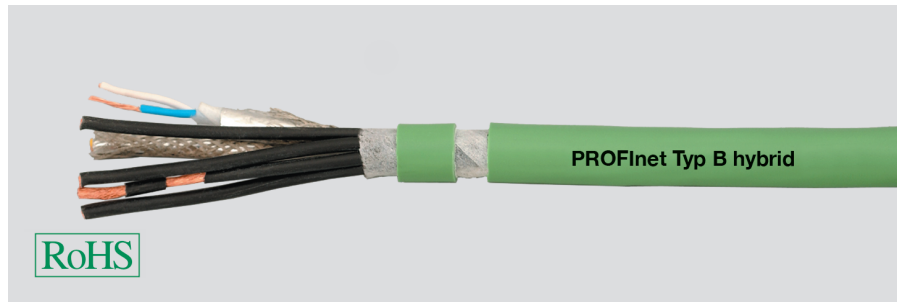
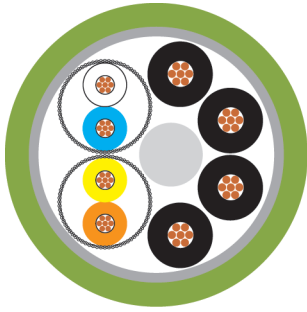


Industrial Ethernet

PROFINet Type B flexible hybrid

HELUKAT[®]

FRNC



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:
Separator:
Shielding 1:
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
PO
wh, ye, bu, og
Black
Double core
Polyester foil over stranded bundle
AL-Foil + braid
Polyester foil
FRNC
app. 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)	50,3	47,2	38,4	35,3
ACR (db)	43,7	39,0	21,5	13,7

Technical data

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

app. 153 kg/km
103 mm
-40°C
+70°C
1,50 MJ/m
94,00 kg/km

Norms

Applicable standards:

PROFINet Guideline + IEC 61158-2
Acc. to ISO/IEC 11801
Acc. to EN 50173
Category 5e
Halogen-free acc. to 60754-2
Flame-retardant acc. to IEC 60332-1-2
Corrosiveness acc. to EN50267-2-3
Low-smoke acc. to EN50268-2
UL Style 21282

UL Style:

Application

HELUKAT[®] PROFINet Type B Category 5e hybrid for flexible applications. The cable listed here corresponds to PROFINet Type B with integrated power supply in a cable with halogen-free and flame-retardent construction.

Part no.

801651, PROFINet type B (SK)

Dimensions and specifications may be changed without prior notice.