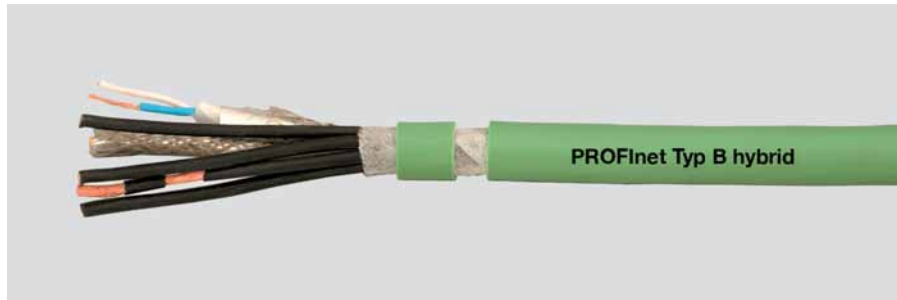
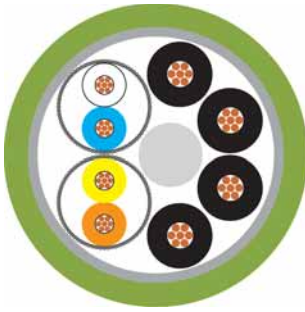


# Industrial Ethernet

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: app. 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 + 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 60332-1-2  
Corrosiveness acc. to EN50267-2-3  
Low-smoke acc. to EN50268-2  
UL Style: UL Style 21282

## 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.

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