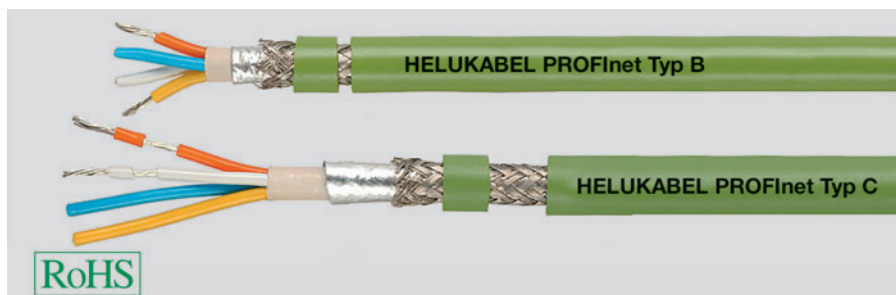
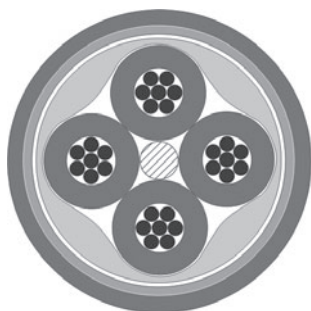


# Industrial Ethernet

PROFInet Type B + C

**HELUKABEL®**  
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:  
Min. bending radius for laying:  
Operating temperature range min.:  
Operating temperature range max.:  
Caloric load, approx. value:  
Copper weight:

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

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

## Norms

Applicable standards:  
UL Style:  
CSA standard:

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

PROFInet Guideline  
CMX 75°C (shielded)  
-

## 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.