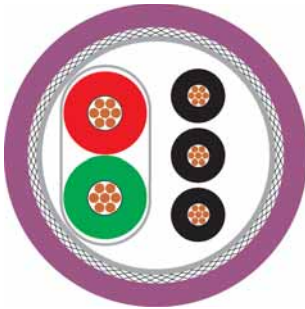


# BUS Cables

Profibus drag chain ET200X + ECOFAST

**HELUKABEL®**

PUR



## 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:

## Drag chain applications 1x2x0.65 mm + 3x1x0.75 mm<sup>2</sup> (stranded)

Copper, bare (AWG 24/19)  
Copper, bare (AWG 18/42)  
Foam-skin-PE  
PE  
rd, gn  
bk, bu, gnye  
Double core  
Polyester foil over stranded bundle  
AL-Foil + braid  
Polyester foil  
PUR  
app. 9,7 mm ± 0,3 mm  
Petrol similar to RAL 5018

## Drag chain applications 1x2x0.65 mm + 4x1x1.5 mm<sup>2</sup> (stranded)

Copper, bare (AWG 24/19)  
Copper, bare (AWG 18/85)  
Foam-skin-PE  
PE  
rd, gn  
bk, bk, bk, bk  
2 cores + 2 fillers stranded together  
Polyester foil over stranded bundle  
AL-Foil + braid  
-  
PUR  
app. 11,5 mm ± 0,3 mm  
Violet similar to RAL 4001

## Electrical data

Characteristic impedance:  
Conductor resistance, max.:  
Insulation resistance, min.:  
Loop resistance:  
Mutual capacitance:  
Test voltage:  
Relative propagation velocity:  
Attenuation:

150 Ohm ± 10 %  
73 Ohm/km  
5 GOhm x km  
145 Ohm/km max.  
30 nF/km nom.  
1,5 kV  
-  
9,6 kHz < 3,0 dB/km  
38,4 kHz < 5,0 dB/km  
4 MHz < 25,0 dB/km  
16 MHz < 52,0 dB/km

150 Ohm ± 15 %  
73 Ohm/km  
1 GOhm x km  
145 Ohm/km max.  
30 nF/km nom.  
1,5 kV  
81 %  
9,6 kHz ≤ 3,0 dB/km  
38,4 kHz ≤ 5,0 dB/km  
4 MHz ≤ 25,0 dB/km  
16 MHz ≤ 52,0 dB/km

## Technical data

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

app. 106 kg/km  
145 mm  
-15°C  
+60°C  
1,953 MJ/m  
46,00 kg/km

app. 160 kg/km  
173 mm  
-15°C  
+60°C  
2,835 MJ/m  
90,00 kg/km

## Norms

Applicable standards:

Profibus acc. to DIN 19245 T3 and EN50170  
Halogen-free acc. to 60754-1  
Flame-retardant acc. to IEC 60332-1-2  
AWM Style 20236 AWM I/II A/B 80°C 30V  
FT1

Profibus acc. to DIN 19245 T3 and EN50170  
Halogen-free acc. to 60754-1  
Flame-retardant acc. to IEC 60332-1-2  
UL Style 20233

## Application

HELUKABEL® Profibus ET200X + Ecofast Hybrid cables are designed for continuous motion in cable carriers. The hybrid construction integrates the power supply next to the Profibus in one cable. The type ET200X offers three 0,75mm<sup>2</sup> power conductors, while the type Ecofast 4 has 1,5mm<sup>2</sup> power conductors and greater current-carrying capacity.

## Part no.

**82913**, Profibus L2

**800044**, Profibus L2

Dimensions and specifications may be changed without prior notice.

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