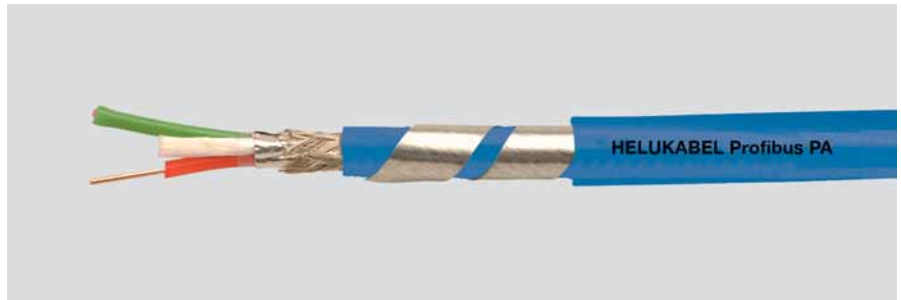
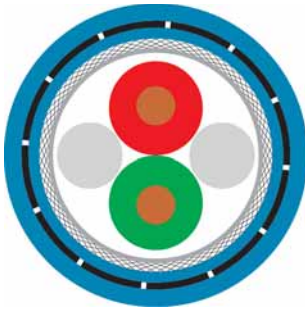


# BUS Cables

Profibus PA fixed installed armoured

 **HELUKABEL®**

PVC



## Type

### Cable structure

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

### Hazardous areas 1x2x1.0/2.55 mm

Copper, bare (AWG 18/1)  
PE  
rd, gn  
2 cores + 2 fillers stranded together  
Polyester foil over stranded bundle  
PVC  
Al-Foil  
Cu braid, tinned  
Steel band  
PVC  
app. 10,2 mm ± 0,2 mm  
Blue similar to RAL 5015

### Non-hazardous areas 1x2x1.0/2.55 mm

Copper, bare (AWG 18/1)  
PE  
rd, gn  
2 cores + 2 fillers stranded together  
Polyester foil over stranded bundle  
PVC  
Al-Foil  
Cu braid, tinned  
Steel band  
PVC  
app. 10,2 mm ± 0,2 mm  
Black

## Electrical data

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

100 Ohm ± 15 %  
22 Ohm/km  
1 GOhm x km  
44 Ohm/km max.  
55 nF/km nom.  
300 V  
2,5 kV  
39 kHz ≤ 3,0 dB/km

100 Ohm ± 15 %  
22 Ohm/km  
1 GOhm x km  
44 Ohm/km max.  
55 nF/km nom.  
300 V  
2,5 kV  
39 kHz ≤ 3,0 dB/km

## Technical data

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

app. 170 kg/km  
140 mm  
-20°C  
+70°C  
1,95 MJ/m  
45,00 kg/km

app. 170 kg/km  
200 mm  
-20°C  
+70°C  
1,95 MJ/m  
45,00 kg/km

## Norms

Applicable standards:

Profibus acc. to DIN 19245 T3 and EN50170  
Flame-retardant acc. IEC 60332-2-1

Profibus acc. to DIN 19245 T3 and EN50170  
Flame-retardant acc. IEC 60332-2-1

## Application

HELUKABEL® Profibus PA Armoured is used in areas with rodent such as rats, nutria etc. but also offers additional protection against all other outside mechanical influences thanks to its steel tape armouring. The colour blue identifies it as suitable for use in potentially explosive areas (and ATEX/ Class II, EX-i/EN 60079-14). For other applications, the colour black is usually used.

## Part no.

**802180**, Profibus PA

**802181**, Profibus PA

Dimensions and specifications may be changed without prior notice.