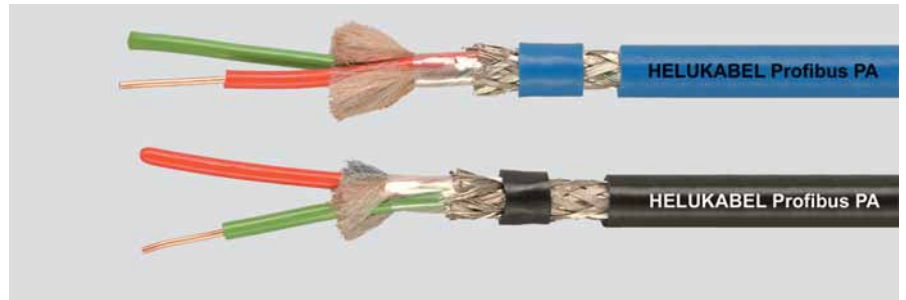
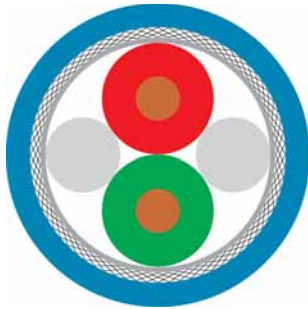


# BUS Cables

Profibus PA fixed installed

**HELUKABEL®**

PVC



## Type

### Cable structure

Inner conductor diameter:  
Core insulation:  
Core colours:  
Stranding element:  
Separator:  
Shielding 1:  
Total shielding:  
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  
Al-Foil  
Cu braid, tinned  
PVC  
app. 7,6 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  
Al-Foil  
Cu braid, tinned  
PVC  
app. 7,6 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 ± 20 %  
22 Ohm/km  
1 GOhm x km  
44 Ohm/km max.  
60 nF/km nom.  
300 V  
2,5 kV  
39 kHz ≤ 3,0 dB/km

100 Ohm ± 20 %  
22 Ohm/km  
1 GOhm x km  
44 Ohm/km max.  
60 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. 76 kg/km  
140 mm  
-30°C  
+80°C  
0,95 MJ/m  
44,00 kg/km

app. 76 kg/km  
140 mm  
-30°C  
+80°C  
0,95 MJ/m  
44,00 kg/km

## Norms

Applicable standards:  
UL Style:

Profibus acc. to DIN 19245 T3 and EN50170  
Flame-retardant acc. IEC 60332-2-1  
UL Style 2571

Profibus acc. to DIN 19245 T3 and EN50170  
Flame-retardant acc. IEC 60332-2-1  
UL Style 2571

## Application

HELUKABEL® Profibus PA is used for normal requirements in the process automation field (chemical industry). 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 selected.

## Part no.

**82835**, Profibus PA

**82836**, Profibus PA

Dimensions and specifications may be changed without prior notice.

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