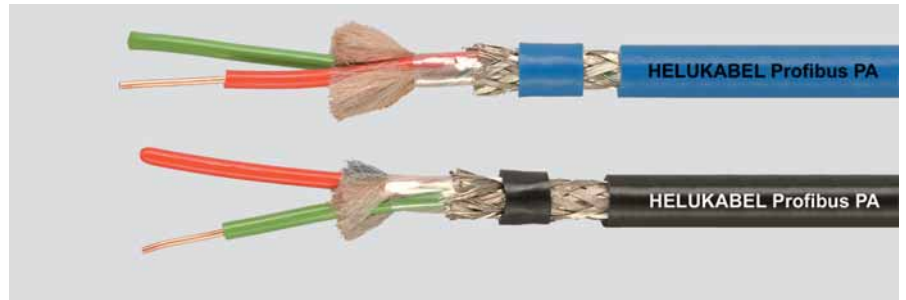
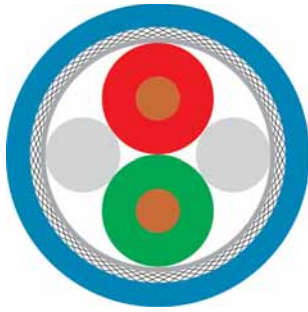


BUS Cables

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.