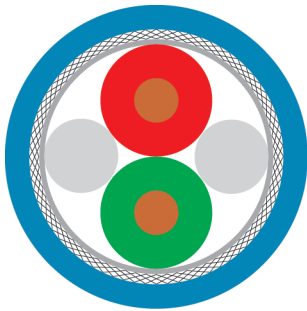


BUS Cables

Profibus PA LD fixed installed



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

1x2x1.6/3.2 mm

Copper, bare (AWG 16/7)
Foam-skin-PE
rd, gn
2 cores + 2 fillers stranded together
Polyester foil over stranded bundle
Al-Foil
Cu braid, tinned
PVC
app. 9,5 mm ± 0,3 mm
Blue similar to RAL 5015

Non-hazardous areas

1x2x1.6/3.2 mm

Copper, bare (AWG 16/7)
Foam-skin-PE
rd, gn
2 cores + 2 fillers stranded together
Polyester foil over stranded bundle
Al-Foil
Cu braid, tinned
PVC
app. 9,5 mm ± 0,3 mm
Black similar to RAL 9005

Electrical data

Characteristic impedance: 100 Ohm ± 20 %
Conductor resistance, max.: 14,6 Ohm/km
Insulation resistance, min.: 1 GOhm x km
Loop resistance: 29,2 Ohm/km max.
Mutual capacitance: 60 nF/km nom.
Nominal voltage: 300 V
Test voltage: 2,5 kV
Attenuation: 39 kHz ≤ 2,7 dB/km

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Technical data

Weight: app. 131 kg/km
bending radius, repeated: 100 mm
Operating temperature range min.: -40°C
Operating temperature range max.: +70°C
Caloric load, approx. value: 1,57 MJ/m
Copper weight: 62,00 kg/km

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Norms

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

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Application

HELUKABEL® Profibus PA Long Distance is used for especially long transmission distances in process networks. It uses a larger conductor cross-section to satisfy the attenuation requirements. 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.

800650, Profibus PA

800715, Profibus PA

Dimensions and specifications may be changed without prior notice.