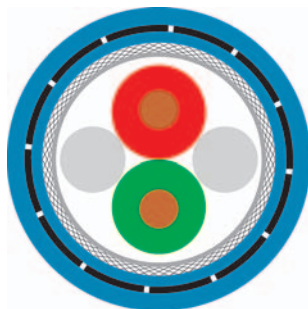


Bus Cables

Profibus PA

HELUKABEL®

armoured



Type

Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Shielding 1:
Inner sheath material:
Shielding 2:
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
Polyester foil, aluminium-lined
Cu braid, tinned
Steel band
PVC
approx. 10,2 mm ± 0,2 mm
Blue

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
Polyester foil, aluminium-lined
Cu braid, tinned
Steel band
PVC
approx. 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:

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

approx. 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

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Application

This Profibus PA line is used in the area of process automation, among other things in the chemical industry. This cable is an economical solution for the cell and field area. For the information exchange between different automation systems as well as for communication with the connected decentralized field units, serial field bus systems are used. The above mentioned types are suitable for ex and not-ex installation where rodent infestation is to be expected and therefore equipped with a metal armouring and a double PVC-sheath.

Part no.

802180, Profibus PA

802181, Profibus PA

Dimensions and specifications may be changed without prior notice.