



Type Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Shielding 1:
Shielding 2:
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
Polyester foil, aluminium-lined
Cu braid, tinned
PVC
7,6 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
Polyester foil, aluminium-lined
Cu braid, tinned
PVC
7,6 mm ± 0,2 mm
Black

Electrical data

Characteristic impedance:
Conductor resistance:
Insulation resistance:
Mutual capacitance:
Nominal voltage:
Test voltage:
Attenuation:

100 Ohm ± 20 %
22,0 Ohm/km max.
1,00 GOhm x km min.
55,0 nF/km nom.
300 V
2,5 kV
39 kHz 3,0 dB/km

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Technical data

Weight:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Caloric load, approx value:
Copper value:

approx. 76,0 kg/km
140,0 mm
-20 °C
+70 °C
0,95 MJ/m
44,0 kg/km

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140,0 mm
-20 °C
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Norms

Applicable standards:
UL Style:

Profibus acc. to DIN 19245 T3 and EN50170
UL Style 2571

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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 and are equipped with a special PVC-sheath.

Part no.

82835, Profibus PA

82836, Profibus PA