



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:

Torsional applications

1x2x0.64 mm (stranded)

Copper, bare (AWG 23/19)
Foam-skin-PE
rd, gn
2 cores + 2 fillers stranded together
Polyester foil over stranded bundle
Polyester foil, Cu bare
Copper shifting, tinned
PUR
8,0 mm \pm 0,3 mm
Violet similar to RAL 4001

Mobile use

1x2x0.65 mm (stranded)

Copper, bare (AWG 24/19)
Cell PE
rd, gn
2 cores + 2 fillers stranded together
Polyester foil over stranded bundle
Polyester foil, aluminium-lined
Cu braid, tinned
PVC
8,0 mm \pm 0,3 mm
Petrol similar to RAL 5018

Electrical data

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

150 Ohm \pm 10 %
66,5 Ohm/km max.
1,00 GOhm x km min.
30,0 nF/km nom.
1,5 kV
9,6 kHz < 3,0 dB/km
38,4 kHz < 5,0 dB/km
4 MHz < 25,0 dB/km
16 MHz < 51,0 dB/km

150 Ohm \pm 10 %
66,5 Ohm/km max.
1,60 GOhm x km min.
28,0 nF/km nom.
2,0 kV
9,6 kHz 3,0 dB/km
38,4 kHz 4,0 dB/km
4 MHz 25,0 dB/km
16 MHz 49,0 dB/km

Technical data

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

approx. 91,0 kg/km
100,0 mm
-5 °C
+60 °C
1,16 MJ/m
28,0 kg/km

approx. 64,0 kg/km
40,0 mm
-40 °C
+60 °C
1,09 MJ/m
23,0 kg/km

Norms

Applicable standards:
UL Style:
CSA standard:

Profibus acc. to DIN 19245 T3 and EN50170
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Profibus acc. to DIN 19245 T3 and EN50170
UL 1685
CEC: CMG FT4

Application

The series TORSION and FESTOON are used to interconnect Profibus BUS components. This BUS system is a very economical solution for the 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 lines described here are designed torsionable or hanging movable construction. Areas such as robot applications and/or garland suspension are easily realized.

Part no.

800109, Profibus L2

800649, Profibus L2