



### Type

#### Cable structure

Inner conductor diameter:  
Core insulation 1:  
Core colours 1:  
Stranding element 1:  
Shielding 1:  
Shielding 2:  
Total shielding:  
Outer sheath material:  
Cable external diameter:  
Outer sheath colour:

### Torsional applications

#### 1x2x0.80 mm (stranded)

Copper, bare (AWG 22/19)  
Foam-skin-PE  
rd, gn  
2 cores + filler  
Polyester foil over stranded bundle  
Polyester foil, aluminium-lined  
Cu braid, tinned  
PUR  
approx. 8,0 mm ± 0,4 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  
approx. 8,0 mm ± 0,3 mm  
Petrol similar to RAL 5018

### Electrical data

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

150 Ohm ± 10 %  
49,0 Ohm/km max.  
1,00 GOhm x km min.  
29,0 nF/km nom.  
3,6 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 ± 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 weight:

approx. 66,0 kg/km  
100,0 mm  
-25°C  
+75°C  
0,89 MJ/m  
32,0 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  
CMX 75°C (shielded)  
-

Profibus acc. to DIN 19245 T3 and EN50170  
CMG 75°C or CL2 or AWM 20201 600V  
CSA FT 4

### 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

Dimensions and specifications may be changed without prior notice.