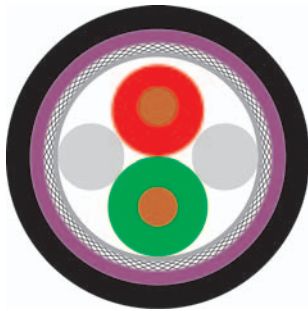


# BUS Cables

## Profibus L2 Direct Burial



without + with Armouring



### 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:

#### Direct burial 1x2x0.64 mm

Copper, bare (AWG 22/1)  
Foam-skin-PE  
rd, gn  
2 cores + 2 fillers stranded together  
Polyester foil over stranded bundle  
PVC  
Polyester foil, aluminium-lined  
Cu braid, tinned  
-  
PE  
approx. 10,0 mm ± 0,2 mm  
Black similar to RAL 9005

#### Direct burial 1x2x0.64 mm

Copper, bare (AWG 22/1)  
Cell PE  
rd, gn  
2 cores + 2 fillers stranded together  
-  
PVC  
Polyester foil, aluminium-lined  
Cu braid, tinned  
Steel band  
PE  
approx. 10,6 mm ± 0,5 mm  
Black similar to RAL 9005

### Electrical data

Characteristic impedance:  
Conductor resistance, max.:  
Insulation resistance, min.:  
Loop resistance:  
Mutual capacitance:  
Nominal voltage:  
Test voltage:  
Attenuation:

150 Ohm ± 10 %  
55 Ohm/km  
1 GOhm x km  
114 Ohm/km max.  
30 nF/km nom.  
-  
1,5 kV  
9,6 kHz < 2,5 dB/km  
38,4 kHz < 4,0 dB/km  
3 MHz < 22,0 dB/km  
20 MHz < 42,0 dB/km

150 Ohm ± 10 %  
55 Ohm/km  
5 GOhm x km  
110 Ohm/km max.  
30 nF/km nom.  
250 V  
1,5 kV  
9,6 kHz < 2,5 dB/km  
38,4 kHz < 4,0 dB/km  
4 MHz < 22,0 dB/km  
16 MHz < 42,0 dB/km

### Technical data

Weight:  
bending radius, repeated:  
Operating temperature range min.:  
Operating temperature range max.:  
Caloric load, approx. value:  
Copper weight:

approx. 92 kg/km  
180 mm  
-40°C  
+70°C  
2,657 MJ/m  
24,00 kg/km

approx. 132 kg/km  
190 mm  
-40°C  
+70°C  
2,40 MJ/m  
24,00 kg/km

### Norms

Applicable standards:

Profibus acc. to DIN 19245 T3 and EN50170

Profibus acc. to DIN 19245 T3 and EN50170

### Application

This system cable is used to interconnect L2-BUS components. 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 underground installation and are equipped with a special PVC/PE sheath or a steel armouring.

### Part no.

**82824**, Profibus ERD

**802177**, Profibus L2

Dimensions and specifications may be changed without prior notice.

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