



Type Cable structure

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

Underground laying 1x2x0.64 mm

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

Electrical data

Characteristic impedance: 150 Ohm ± 10 %
Conductor resistance: 57,1 Ohm/km max.
Insulation resistance: 1,00 GOhm x km min.
Mutual capacitance: 30,0 nF/km nom.
Test voltage: 1,5 kV
Attenuation: 9,6 kHz < 2,1 dB/km
38,4 kHz < 3,1 dB/km
3 MHz < 18,2 dB/km
20 MHz < 47,0 dB/km

Technical data

Weight: approx. 92,0 kg/km
Min. bending radius for laying: 180,0 mm
Operating temperature range min.: -40 °C
Operating temperature range max.: +70 °C
Caloric load, approx value: 2,66 MJ/m
Copper value: 24,0 kg/km

Norms

Applicable standards: 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 type is suitable for underground installation and is equipped with a special PVC/PE sheath.

Part no.

82824, Profibus ERD