

PROFIBUS cable solid

Function

The **PROFIBUS cable solid** is intended for a firm installation in dry and wet rooms. The double shielding makes the line suitable for use in an electromagnetic environment. This line is used for field bus systems, such as PROFIBUS DP; PROFIBUS FMS, Siemens SIMATEC NET which are all in accordance with DIN 19245, section 3 and EN 50170 cable type A as well as for the high-performance network bus line that has a rated impedance of 150 ohm. The fieldbus line is rated for transmission speeds of up to 12 Mbps. This line type is designed for a routed line laying either in dry or damp locations. The dual-shielding makes this line particularly suitable for use in electromagnetically loaded areas.

Application instruction

The standard field bus line is suitable for applications where the mechanical/chemical loads are low. It is also designed for system-related transmission rates between 1.5 Mbps and 12 Mbps. The transfer characteristics are system-confirming and thus ensure a high secure of data transmission. Together with the FastConnect stripping tool it can be used for rapid contacting. The line end can be prepared for a ready-to plug connection in one work step, particularly for the IDC (Insulation Displacement Connector) method of termination.

Standards

- IEC 61158-2; DIN 19245 T3; EN 50170
- EN 60332-1-2

Chemical data

- RoHS 2002/95/EG

Construction

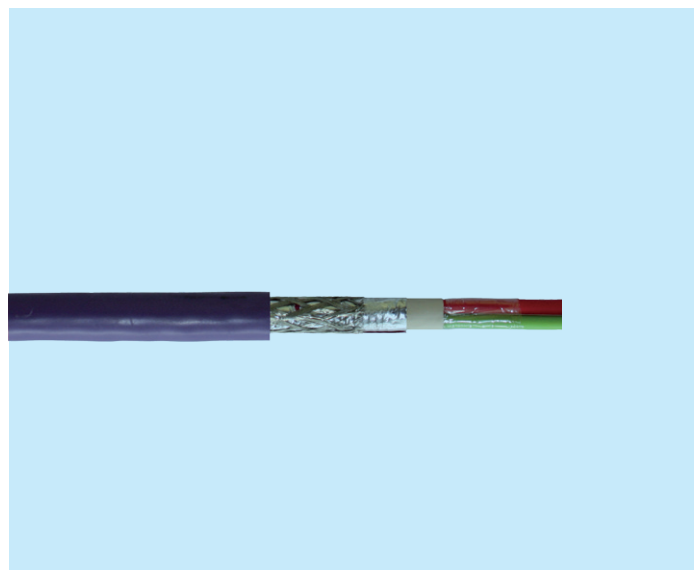
- Conductor: AWG 22/1, bare
- Insulation: FS-PE
- Diameter: 2,50 ±0,05 mm
- Shielding total: Plastic laminated Aluminium foil
- Shielding: Copper, wire 0,10 vz
Optical coverage >85%
- Jacket: Special PVC
- Diameter: 7,8 mm ±0,2 mm
- Colour: Violett, RAL 4001

Electrical data

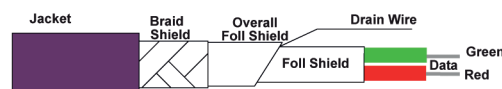
- Loop resistance: Max. 150 Ohm/km according to VDE 0812
- Insulation resistance: Min. 5 GOhm x km at +20°C
- Operating capacity: Nom. 30nF/km
- Test voltage: 1000 V/DC
- Work voltage: 125 V
- Screen resistance: < 9,5 mOhm/m
- Transfer impedance: < 20 mOhm/m at 10 MHz

Mechanical data

- Bending radius: 12 x diameter during installation
6 x diameter fixed
- Temperatur range:
 - fix: -5°C to +70°C
 - oved: -30°C bis +80°C
- Max. tractive force: 100 N



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Engineering drawing

Ordering details

PROFIBUS cable solid

Art. No.

110070000

Accessories

PROFIBUS Fast Connect Stripping Tool

110020032