

## PROFIBUS cable +FE solid

### Function

The **PROFIBUS cable +FE solid** is a solid data cable for transmission of analog and digital signals on cabling according to PROFIBUS standard in mechanical engineering. The inner jacket as fast connect version and the double shield braiding ensures maximum shielding values.

### Standards

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

### Chemical data

- RoHS 2002/95/EG

### Construction

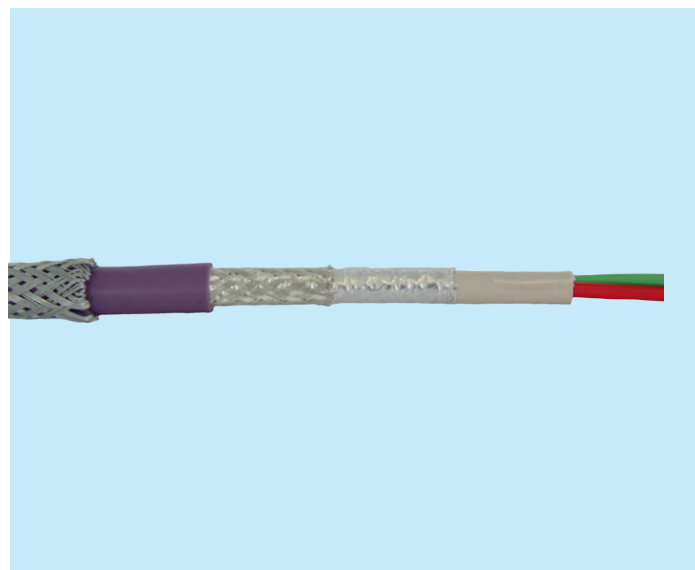
- Conductor: AWG 24/1, bare
- Insulation: FS-PE
- Diameter: 2,50 ± 0,05 mm
- Inner jacket: Special PVC
- Shielding total: Plastic laminated Aluminium foil
- Inner/outer screen: Copper, wire 0,10  
Optical coverage > 80%  
Shielding braid of V2A on request
- Screen section: > 1,5 mm<sup>2</sup>
- Carrying capacity: max. 10 A  
(outer screen):
- Jacket: Special PVC
- Colour: Violet, RAL 4001
- Diameter: 8,2 ± 0,2 mm

### Electrical data

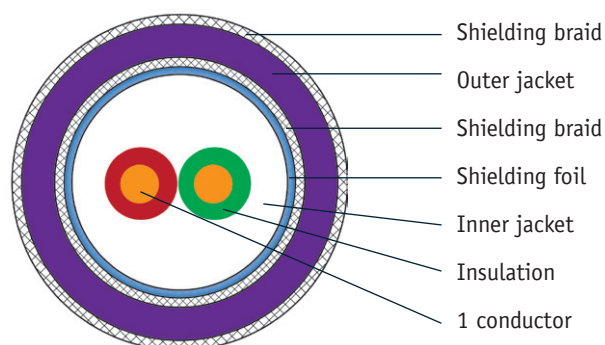
- Loop resistance: max. 115 Ohm/km according to VDE 0812
- Insulation resistance: min. 5 GOhm x km at +20°C
- Operating capacity: nom. 30nF/km
- Test voltage: 1000 V/DC
- Work voltage: 100 V
- Screen resistance: < 9,5 mOhm/m
- Transfer impedance: < 15 mOhm/mat 10MHz

### Mechanical data

- Max. tractive force: 120 N
- Bending radius: 6 x diameter during installation  
12 x diameter fixed
- Temperatur range:
  - fix: -30°C to +80°C
  - oved: -5°C to +70°C



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Cross section PROFIBUS cable +FE solid

Ordering details	Art. No.
PROFIBUS cable +FE solid	110070017
PROFIBUS cable +FE solid V2A	On request