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 laminted Aluminium foil
- Inner/outer screen: Copper, wire 0,10
  Optical coverage > 80%
  Shielding braid of V2A on request
- Screen section: > 1,5 mm²
- Carrying capacity: max. 10 A
- Jacket: Special PVC
- Colour: Violett, 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

Ordering details

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<th>Art. No.</th>
<th>PROFIBUS cable +FE solid 110070017</th>
<th>PROFIBUS cable +FE solid V2A On request</th>
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Cross section PROFIBUS cable +FE solid

- Shielding braided
- Outer jacket
- Shielding braided
- Shielding foil
- Inner jacket
- Insulation
- 1 conductor