

PROFINET cable Cat5 type B, flexible

Function

For a PROFINET network in an industrial environment only shielded cabling and connecting elements are permissible. Industry-suitable cables can be exposed to extremely mechanical load requiring a special structure. Plug-and-socket connectors and cables from a well-coordinated system. Only those elements that have proven their compatibility are called PROFINET units.

Wires

- Copper strand: 7 x 0,25 / Ø 0,75 mm
- PE insulation: Ø 1,5 mm
- Wire colours: Yellow, orange, white, blue

Shielding

- Shield braid made of tinned copper wires
- Aluminum foil overlapping

Electrical properties at 20°C

- Loop resistance per length: ≤ 115 Ohm / km
- Signal term: ≤ 5,3 ns/m
- Insulation resistance: ≥ 500 MOhm * km
- Char. impedance (1-100 MHz): 100 ± 15 Ohm
- Transfer impedance (10 MHz): ≤ 10 mOhm/m
- Test voltage (Wire/Wire/Screen rms 50 Hz 1 Min.): 2000 V
- Electrical requirements according to EN 50288-2-1

Mechanical and thermal data

- Shield material according to DIN EN 13602 Cu-ETP-A ...- B
- Insulation material according to DIN EN 50290-2-23 (VDE 0819), table L/MD (HD 624,3)
- Jacket material according to DIN EN 50290-2-22 (VDE 0819), connection type TM52 (HD 624,2)
- Of low flammability according to UL 1685 (CSA FT 4)
- Oil-resistant according to IEC 60811-404 (4 hours/70°C)
- UL-File E119100 Vol.1 Sec.12 Site 1; UL-File E116441 Vol.1 Sec. 6 S. 8; UL-Style 21694

General data

- Sunlight resistance according to UL 1581 Sec.1200
- Temperature range: -40°C bis +75°C
 - Storage: -20°C bis +60°C
 - Transport: -50°C bis +80°C
- Bending radius:
 - Bending radius for repeated usage: 7 x Ø
 - Bending radius for single usage: 3 x Ø
- PVC weight with Phthalat: 30,9 kg/km
- PVC weight with Phthalat: 0,0 kg/km
- Weight: Ca. 68 kg/km

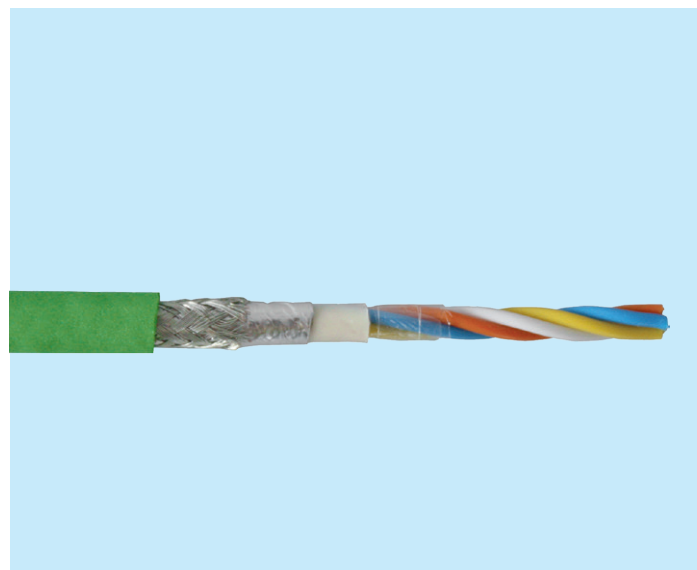
Ordering details

Art. No.

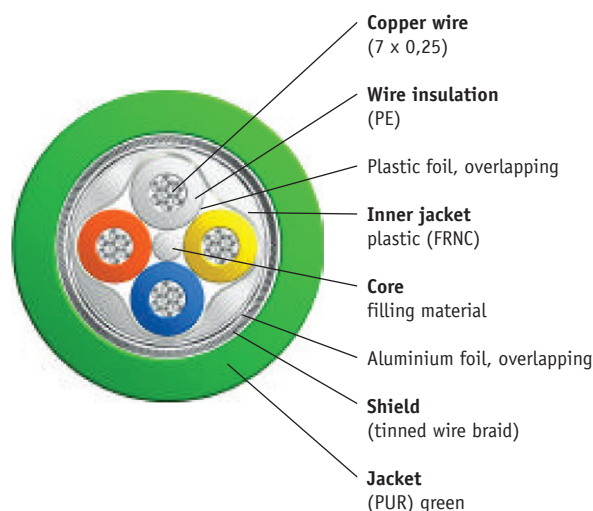
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*) length on request



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Engineering drawing