



USE OF CABLE

as a data cable for the transmission of digital and analog signals for PROFINET systems, Industrial Ethernet & ICT network applications. For for high flexible applications (e.g. power chains, gantry robots, pick&place units, conveyors, machine tools, automated production systems, etc.) in harsh industrial environments.

Standard acc. Profinet Spec. & according the requirements for industrial secondary and tertiary cabling: EN 50173, ISO / IEC 11801, TIA / EIA 568, TSB36, EN 50288, IEC 61156-5/-6



SPECIAL FEATURES

- low adhesion
- largely resistant to grease, coolant fluids and lubricants
- oil-resistant: PUR & PVC acc.to DIN EN 60811-2-1 (PVC only mineral oil)
- UV-resistant
- optimized EMC compliant shielding
- 2 pairs: 10/100 Mbit / s for Industrial Ethernet
- HF-characteristics Cat.5e acc. to IEC 61156-5 (AWG22)
- max. cable lengths at stated transmission rate:  
Type C: 100Mbit/s - 85m | TORSION: 55m

REMARKS

- conform to RoHS // LABS-/silicone-free (during production)
- conform to 2014/35/EU-Guideline ("Low-Voltage Directive") CE
- FRNC: Flame Retardant, Non Corrosive
- FC-Type = 'fast-connect' construction
- IDC - Insulation Displacement Connector, Insulation displacement technology
- Typ C: für hochflexible Anwendungen

PRODUCT INFORMATION

|                              |                                                                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Conductor material:          | Copper stand tinned (7-wired) resp. bare copper strand (19-wired)                                                                            |
| Conductor class:             | 7- or 19-wired                                                                                                                               |
| Core insulation:             | Polyolefin or foamed Polyolefin                                                                                                              |
| Core identification:         | Wh,ye - bu,og                                                                                                                                |
| Overall stranding:           | 4 cores stranded to star quad                                                                                                                |
| Outer sheath:                | PVC resp. PUR                                                                                                                                |
| Sheath colour:               | Green, RAL 6018 (GN)                                                                                                                         |
| Rated voltage:               | 125 V (not for high voltage purposes)                                                                                                        |
| Loop resistance:             | 110,8 Ω x km                                                                                                                                 |
| Capacity:                    | Nom. 48 nF/km                                                                                                                                |
| Characteristic impedance:    | 100 ± 15 Ω                                                                                                                                   |
| Transfer rate:               | Up to 100 Mbit/s                                                                                                                             |
| Min. bending radius fixed:   | 5 x d                                                                                                                                        |
| Min. bending radius moved:   | 7,5 x d < 3mTL*   15 x d ≥ 3mTL*                                                                                                             |
| Operat. temp. fixed min/max: | -40 °C / +80 °C                                                                                                                              |
| Operat. temp. moved min/max: | PVC: -10 °C / +70 °C; PUR: -30 °C / +70 °C                                                                                                   |
| Halogen free:                | PUR: IEC 60754-1                                                                                                                             |
| Burning behavior:            | PVC CMG: acc. IEC 60332-3-24(Cat.C), FT 4   PUR: acc. IEC 60332-1-2   PUR CMX: acc. IEC 60332-1-2, VW-1   PUR AWM: Horizontal Flame (UL2556) |
| Torsion:                     | TORSION: ± 180°/m                                                                                                                            |
| Approvals:                   | S. table right side                                                                                                                          |
| Speed:                       | Self-supporting: 4 m/s                                                                                                                       |
| Acceleration:                | Max. 5 m/s²   TORSION: max. 10 m/s²                                                                                                          |
| Bending cycles:              | PUR: up to 5 Mio. PVC: up to 2 Mio                                                                                                           |

ITEM OVERVIEW

| Product No. | Dimension [n x mm²] | Outer-Ø [mm] | Cu-Index [kg/km] | Weight [kg/1.000] | sheath colour | Variant                                   |
|-------------|---------------------|--------------|------------------|-------------------|---------------|-------------------------------------------|
| 2003735     | 2 X 2 X AWG 22/19   | 6,5          | 33,00            | 70,00             | green         | V1: PROFINET - Trailing Cat. 5e - 200 MHz |
| 2003736     | 2 X 2 X AWG 22/7    | 6,5          | 33,00            | 70,00             | green         | V1: PROFINET - Trailing Cat. 5e - 200 MHz |
| 2003737     | 2 X 2 X AWG 22/19   | 6,5          | 33,00            | 68,00             | green         | V1: PROFINET - Trailing Cat. 5e - 200 MHz |
| 2003738     | 2 X 2 X AWG 22/7    | 6,5          | 33,00            | 68,00             | green         | V1: PROFINET - Trailing Cat. 5e - 200 MHz |
| 2003739     | 2 X 2 X AWG 22/19   | 6,5          | 33,00            | 54,00             | green         | V2: PROFINET - Torsion Cat. 5e - 200 MHz  |
| 2003740     | 2 X 2 X AWG 22/7    | 6,5          | 33,00            | 54,00             | green         | V3: PROFINET - Festoon Cat. 5e - 200 MHz  |
| 2003741     | 2 X 2 X AWG 22/19   | 6,5          | 33,00            | 53,00             | green         | V3: PROFINET - Festoon Cat. 5e - 200 MHz  |