



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