



USE OF CABLE

as a data cable for the transmission of digital and analog signals for PROFINET systems, Industrial Ethernet & ICT network applications. For fixed applications & limited flexible applications in harsh industrial environments for industrial machinery, decices and cabinet wiring.

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

- largely resistant to grease, coolant fluids and lubricants
- oil-resistant: PUR & PVC acc.to DIN EN 60811-2-1 (PVC only mineral oil)
 - Marine MUD acc.to NEK 606 (drilling mud)
- UV-resistant: PUR; FEP; PVC & PE black; CMG & CMX types
- optimized EMC compliant shielding
- 2 pairs: 10/100 Mbit / s for Industrial Ethernet
- HF-characteristics Cat.5e acc. to IEC 61156-5 (AWG22), IEC 61156-6 (AWG24)
- max. cable lengths at stated transmission rate:
 - Typ A: 100Mbit/s - max.100m | Typ B: 100Mbit/s - max.85m

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
- Typ A: for fixed laying | Typ B: for flexible applications

PRODUCT INFORMATION

Conductor material:	Typ A: bare copper conductor Typ B: copper strand tinned, supply cores: copper strand tinned
Conductor class:	Typ A: solid Typ B: 7-wired; supply cores acc. to IEC 60228 cl. 5
Core insulation:	Data cores: polyolefin resp. foamed polyolefin or FEP, supply cores: polyolefin or PVC
Core identification:	Data cores: wh,ye-bu,og; supply cores: 0,34 mm² acc. to DIN 47100 - 1,5 mm² bk with white numerals
Stranding:	4 cores twisted to quad, HYBRID-version: data cores twisted to pairs
Shield:	SF/UTP: copper braid tinned over alu-lamin. polyester foil, metal side outs., cover. 100% HYBRID: U/SFTP
Overall stranding:	HYBRID: screened datapairs a. supply cores stranded
Outer sheath:	PVC, PE, FEP, PUR, XP, HP, halogen-free compound
Sheath colour:	Green RAL 6018 (GN) or black RAL 9005 (BK)
Rated voltage:	125 V (not for high voltage purposes)
Loop resistance:	Max.115,0 Ω/km - AWG22; max.115,0 Ω/km - 0,34 mm²; max.26,6 Ω/km - 1,5 mm²
Capacity:	Nom. 48 nF/km
Characteristic impedance:	100 ± 15 Ω
Transfer rate:	Up to 100 Mbit/s
Min. bending radius fixed:	10 x d
Min. bending radius moved:	15 x d
Operat. temp. fixed min/max:	-40 °C / +80 °C FRNC: -25 °C / +80 °C FEP: -50 °C / +180 °C (short time +205 °C)
Operat. temp. moved min/max:	-10 °C / +70 °C; PUR,FEP: -30 °C / +70 °C
Halogen free:	Acc. to IEC 60754-1 (FRNC types)
Burning behavior:	PE: not flame retardant PVC+Marine C-XP: acc. to IEC 60332-1-2 AWM: acc. to IEC 60332-1-2, cable flame test (UL 2556) CMX: acc. to IEC 60332-1-2, FT1, VW-1 CMG: acc. to IEC 60332-3-24, FT4 CM: acc. to IEC 60332-3-24, UL FlameExposure (UL 1685/CSA) Marine C-HP: acc. to IEC 60332-3-22 (Cat. A/F)
Approvals:	See table right side

ITEM OVERVIEW

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
2003719	2 X 2 X AWG 22/1	6,5	33,00	68,00	green	V1: PROFINET - Standard Cat. 5e - 200 MHz UL/CSA
2003720	2 X 2 X AWG 22/7	6,5	33,00	69,00	green	V2: PROFINET - Flexible Cat. 5e - 200 MHz UL/CSA
2003721	2 X 2 X AWG 22/1	6,5	33,00	71,00	green	V3: PROFINET - FRNC Cat. 5e - 200 MHz UL/CSA
2003722	2 X 2 X AWG 22/7	6,5	33,00	72,00	green	V3: PROFINET - FRNC Cat. 5e - 200 MHz UL/CSA
2003723	2 X 2 X AWG 22/7	6,5	33,00	69,00	black	V4: PROFINET - Outdoor Cat. 5e - 200 MHz UL/CSA
2003724	2 X 2 X AWG 22/1	9,0	33,00	101,00	black	V5: PROFINET - Burial Cat. 5e - 200 MHz
2003725	2 X 2 X AWG 22/1	6,5	33,00	73,00	green	V6: PROFINET - Robust Cat. 5e - 200 MHz UL/CSA
2003726	2 X 2 X AWG 22/7	6,5	33,00	73,00	green	V6: PROFINET - Robust Cat. 5e - 200 MHz UL/CSA

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
2003801	2 X 2 X AWG 22/1	6,5	33,00	73,00	green	V6: PROFINET - Robust Cat. 5e - 200 MHz UL/CSA
2003802	2 X 2 X AWG 22/7	6,5	33,00	73,00	green	V6: PROFINET - Robust Cat. 5e - 200 MHz UL/CSA
2003727	2 X 2 X AWG 22/7	6,5	33,00	72,00	black	V7: PROFINET - Food Cat. 5e - 200 MHz
2003728	2 X 2 X AWG 22/1	6,5	33,00	68,00	green	V8: PROFINET - Extemp 105°C & 180°C Cat. 5e - 200 MHz
2003729	2 X 2 X AWG 22/1	5,4	33,00	62,00	green	V8: PROFINET - Extemp 105°C & 180°C Cat. 5e - 200 MHz