



USE OF CABLE

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

Standard acc. Industrial Ethernet Spec. & according the requirements for industrial secondary & and tertiary cabling: EN 50173, ISO/IEC 11801, ISO/IEC 24702, TIA/EIA 568, TSB36, EN 50288, IEC 61156-5/-6



SPECIAL FEATURES

- largely resistant to grease, coolant fluids and lubricants
- oil-resistant: acc. to DIN EN 60811-2-1 (PVC only mineral oil)
- UV-resistant: PUR; FEP; PVC CMG types
- optimized EMC compliant shielding
- 4 pairs: 10/100/1000Mbit/s (Cat.5e,6) & 10Gbit/s (Cat.6A,7,7A) for Industrial Ethernet
- HF-characteristics Cat.5e,6,6A,7 & 7A acc.to IEC 61156-5 (solid) resp. IEC 61156-6 (7-wired)
- max. cable lengths at above stated transmission rate: 100m (solid) & 85m (7-wired)

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
- 7-wired: for patch cable applications (max 60m.)

PRODUCT INFORMATION

Conductor material:	Bare copper conductor resp. bare copper strand
Conductor class:	Solid resp. 7-wired
Core insulation:	Polyolefin resp. foamed polyolefin or FEP
Core identification:	Whbu-bu, whog-og, whgn-gn, whbn-bn (resp. wh-bu, wh-og, wh-gn, wh-bn - at FTP types)
Overall stranding:	Cores twisted to pairs
Outer sheath:	PVC, halogen-free compound, PUR or FEP
Sheath colour:	Green RAL 6018 (GN)
Rated voltage:	125 V (not for high voltage purposes)
Loop resistance:	Max.115,0Ω/km - AWG22; max.146,2Ω/km - AWG23; max.187,6 Ω/km - AWG24/1; max.175,2 Ω/km - AWG24/7; max.280,0 Ω/km - AWG26
Capacity:	Nom. 48 nF/km
Characteristic impedance:	100 Ω ± 15 Ω
Transfer rate:	Cat.5e,6 up to 1.024Mbit/s Cat.6A,7,7A up to 10Gbit/s.
Min. bending radius fixed:	8 x d
Min. bending radius moved:	15 x d
Operat. temp. fixed min/max:	PVC & PUR: -40 °C / +80 °C FRNC: -25 °C / +80 °C FEP: -50 °C / +180 °C (short time +205 °C)
Operat. temp. moved min/max:	PVC: -10 °C / +70 °C PUR: -30 °C / +70 °C
Halogen free:	Acc. to IEC 60754-1 (FRNC types)
Burning behavior:	PVC CMG: IEC 60332-3-24, FT4 PUR CMX: IEC 60332-1-2, VW-1 CM: IEC 60332-3-24, UL Flame Exposure (UL 1685/CSA) FRNC: IEC 60332-1-2
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
2003742	4 X 2 X AWG 24/1	6,5	36,00	60,00	green	V1: INDUSTRIAL ETHERNET - Standard
2003743	4 X 2 X AWG 22/1	9,6	44,00	102,00	green	V1: INDUSTRIAL ETHERNET - Standard
2003744	4 X 2 X AWG 24/1	8,0	36,00	84,00	green	V1: INDUSTRIAL ETHERNET - Standard
2003797	4 X 2 X AWG 22/1	9,0	54,00	98,00	green	V1: INDUSTRIAL ETHERNET - Standard
2003745	4 X 2 X AWG 22/1	8,8	54,00	80,00	green	V1: INDUSTRIAL ETHERNET - Standard
2003746	4 X 2 X AWG 24/1	8,0	36,00	70,00	green	V1: INDUSTRIAL ETHERNET - Standard
2003747	4 X 2 X AWG 26/7	6,2	31,00	54,00	green	V2: INDUSTRIAL ETHERNET - Flexible
2003748	4 X 2 X AWG 24/7	8,0	39,00	72,00	green	V2: INDUSTRIAL ETHERNET - Flexible
2003749	4 X 2 X AWG 23/7	8,8	49,00	92,00	green	V2: INDUSTRIAL ETHERNET - Flexible
2003750	4 X 2 X AWG 26/7	6,4	35,00	54,00	green	V2: INDUSTRIAL ETHERNET - Flexible

INDUSTRIAL ETHERNET Cat.5e - Cat.7A

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
2003751	4 X 2 X AWG 26/7	6,2	31,00	54,00	green	V3.0: INDUSTRIAL ETHERNET - FRNC
2003752	4 X 2 X AWG 26/7	7,0	31,00	60,00	green	V3.0: INDUSTRIAL ETHERNET - FRNC
2003753	4 X 2 X AWG 23/7	8,0	49,00	92,00	green	V3.0: INDUSTRIAL ETHERNET - FRNC
2003754	4 X 2 X AWG 26/7	6,4	34,00	66,00	green	V3.0: INDUSTRIAL ETHERNET - FRNC
2003755	4 X 2 X AWG 26/7	6,2	31,00	51,00	green	V4: INDUSTRIAL ETHERNET - Robust
2003756	4 X 2 X AWG 26/7	6,5	39,00	75,00	green	V5: INDUSTRIAL ETHERNET - Extemp 180°C