



## 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 in industrial, highly combustible or fire-risk industrial areas 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
- optimized EMC compliant shielding
- 4 pairs: 10/100/1000Mbit/s (Cat. 6) & 10Gbit/s (Cat. 7) for Industrial Ethernet
- HF-characteristics Cat. 6 & 7 acc.to IEC 61156-5 (solid)
- max. cable lengths at above stated transmission rate: 100m (solid)
- circuit integrity function: 120 min (acc. to EN 50200)

## REMARKS

- conform to RoHS
- conform to 2014/35/EU-Guideline ("Low-Voltage Directive") CE
- LABS-/silicone-free (during production)
- FRNC: Flame Retardant, Non Corrosive

## PRODUCT INFORMATION

Conductor material:	Bare copper conductor
Conductor class:	Solid
Core insulation:	Polyolefin with special-tape (anti-fire-barrier)
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, Cat. 6: pairs stranded together ground halogen-free separator
Outer sheath:	Halogen-free compound
Sheath colour:	Green RAL 6018 (GN), orange RAL 2003 (OG)
Rated voltage:	125 V (not for high voltage purposes)
Capacity:	Nom. 65 nF/km (800 Hz)
Characteristic impedance:	100 Ω ± 15 Ω
Transfer rate:	Cat. 6 up to 1.024Mbit/s   Cat. 7 up to 10Gbit/s.
Min. bending radius fixed:	15 x d
Min. bending radius moved:	15 x d
Operat. temp. fixed min/max:	-20 °C / + 70 °C
Halogen free:	Acc. to IEC 60754-1
Smoke density:	Acc. to IEC 61034-2
Corrodibility:	Acc. to IEC 60754-2
Burning behavior:	Acc. to IEC 60332-1 & IEC 60332-3-24, fire resistant acc. to IEC 50200

## ITEM OVERVIEW

Product No.	Dimension [n x mm <sup>2</sup> ]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
2003805	4 X 2 X AWG 23/1	8,6	35,00	750,00	red	V0: IND. ETHERNET FIRE PH120 C-H
2003804	4 X 2 X AWG 22/1	10,6	44,00	138,00	green	V0: IND. ETHERNET FIRE PH120 C-H
2003803	4 X 2 X AWG 22/1	11,0	44,00	145,00	orange	V0: IND. ETHERNET FIRE PH120 C-H