



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 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. Industrial Ethernet Spec. & accordind 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

- low adhesion
- largely resistant to grease, coolant fluids and lubricants
- oil-resistant: acc. to DIN EN 60811-2-1
- UV-resistant
- optimized EMC compliant shielding
- Reeling: 3 layer outer sheath - PUR+textile supporting braid+PUR
- 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 61156-6
- max. cable lengths at above stated transmission rate: 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
- 7-/19-wired: for patch cable applications(max 60m.)

PRODUCT INFORMATION

Conductor material:	Bare copper stranded or tinned
Conductor class:	7- resp. 19-wired
Core insulation:	Polyolefin resp. foamed Polyolefin
Core identification:	Whbu-bu, whog-og, whgn-gn, whbn-bn (resp. wh-bu, wh-og, wh-gn, wh-bn - at FTP types)
Stranding:	Cores twisted to pairs
Inner sheath material:	Reeling: PUR under textile supporting braid
Outer sheath:	PUR
Sheath colour:	Green RAL6018(GN),petrol RAL5021(PT) or black(BK)
Rated voltage:	125 V (not for high voltage purposes)
Loop resistance:	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:	5 x d
Min. bending radius moved:	7,5 x d < 3mVW* 15 x d ≥ 3mVW*
Operat. temp. fixed min/max:	-40 °C / +80 °C
Operat. temp. moved min/max:	-30 °C / +70 °C
Halogen free:	Acc. to IEC 60754-1 (FRNC types)
Burning behavior:	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.

ITEM OVERVIEW

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
2003757	4 X 2 X AWG 26/19	6,3	35,00	47,00	petrol	V1: INDUSTRIAL ETHERNET - Trailing
2003758	4 X 2 X AWG 26/19	6,8	35,00	54,00	green	V2.0: INDUSTRIAL ETHERNET - Trailing UL/CSA
2003759	4 X 2 X AWG 26/19	7,8	35,00	74,00	green	V2.0: INDUSTRIAL ETHERNET - Trailing UL/CSA
2003760	4 X 2 X AWG 26/7	7,8	35,00	66,00	green	V2.0: INDUSTRIAL ETHERNET - Trailing UL/CSA
2003761	4 X 2 X AWG 26/7	8,4	35,00	61,00	green	V2.0: INDUSTRIAL ETHERNET - Trailing UL/CSA
2003768	4 X 2 X AWG 26/19	8,6	39,00	80,00	green	V2.0: INDUSTRIAL ETHERNET - Trailing UL/CSA
2003762	4 X 2 X AWG 26/19	6,9	35,00	55,00	green	V3: INDUSTRIAL ETHERNET - Torsion UL/CSA
2003885	4 X 2 X AWG 26/19	6,9	35,00	55,00	black	V3: INDUSTRIAL ETHERNET - Torsion UL/CSA

INDUSTRIAL ETHERNET Cat.5e - Cat.7A - HF

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
2003765	4 X 2 X AWG 26/19	8,4	39,00	68,00	green	V3: INDUSTRIAL ETHERNET - Torsion UL/CSA
2003798	4 X 2 X AWG 26/19	8,6	39,00	80,00	green	V3: INDUSTRIAL ETHERNET - Torsion UL/CSA
2003763	4 X 2 X AWG 26/19	8,4	39,00	72,00	green	V3: INDUSTRIAL ETHERNET - Torsion UL/CSA
2003764	4 X 2 X AWG 26/19	8,6	39,00	80,00	green	V3: INDUSTRIAL ETHERNET - Torsion UL/CSA
2003766	4 X 2 X AWG 26/19	8,4	39,00	72,00	green	V4: INDUSTRIAL ETHERNET - Festoon UL/CSA
2003767	4 X 2 X AWG 26/19	8,6	39,00	80,00	green	V4: INDUSTRIAL ETHERNET - Festoon UL/CSA
2003769	4 X 2 X AWG 26/19	10,3	39,00	109,00	black	V5: INDUSTRIAL ETHERNET - Reeling UL/CSA
2003770	4 X 2 X AWG 26/19	10,7	39,00	117,00	black	V5: INDUSTRIAL ETHERNET - Reeling UL/CSA