

Industrial Ethernet

Cat.6A S/FTP Trailing Patch Cable PUR

FieldNET
Automation Cables

Application

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
- 4 pairs: 10/100/1000Mb/10Gbit/s
- HF-characteristics acc.to IEC 61156-6
- max. cable lengths at above stated transmission rate: 85m

Cable Design

Conductor	Stranded bare copper wire, 26awg (19 strands)
Insulation	Polyolefin
Core Identificatiob	wh-bu, whog, wh-gn, wh-bn
Stranding	Cores twisted to pairs
Shield	Tinned copper braid over Individually Alu./polyester foil shielded pairs
Outer Jacket	PUR- Polyurethane
Outer Jacket Colour	Green RAL6018
Overall Diameter	Ø 7,80 mm



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Characteristics

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 \pm 15 Ω
Transfer Rate	up to 10Gbit/s.
Weight	66 kg/km
Min. Bending Radius Fixed	5 x d
Min. Bending Radius Moved	7,5 x d < 3mVW* 15 x d \geq 3mVW*
Speed	self-supporting: 4 m/s
Traverse Length	max. 10 m (TL)
Acceleration	max. 5 m/s ² TORSION: max. 10 m/s ²
Bending Cycles	up to 5 Mio.
Torsion	\pm 180°/m
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
Burning Behavior	acc. IEC 60332-1-2

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