

Industrial Ethernet SF/UTP Cat 5e - Profinet Type B FC LSZH UV Cca

Industrial Ethernet, Cat 5e
+75 °C service temperature, collective screen, fire retardant, oil and UV resistant
EN 50288-2-1, EN 50173, ISO/IEC 11801 (2nd edition), IEC 61156-5, PROFInet Cabling Guide and EN 50575

Application

Zero halogen industrial ethernet (PROFINET Type B) cable with improved fire characteristics for universal use. As data cable for the transmission of digital and analog signals for PROFINET systems, Industrial Ethernet & ICT network applications (10/100 Mbps). Zero halogen cables are suitable for installation in environments where smoke and toxic fumes may threaten life or valuable equipment. For fixed installation in harsh industrial environments for wiring of machines, tools, devices, appliances and control cabinets. UV-resistant for installation indoors and outdoors.

Fast Connect (FC) cable design for easy installation together with the appropriate tools and connectors.

Construction



- | | |
|----------------------|---|
| 1. Conductor: | Copper conductor, bare, stranded |
| 2. Insulation: | PE |
| Core identification: | White, yellow, blue, orange |
| 3. Core covering: | Filler |
| 4. Screen: | Laminated Alu/PETP tape |
| 5. Braid: | Tinned copper wire braid (80% optical coverage) |
| 6. Outer sheath: | Zero halogen, green similar to RAL 6018 |

Technical information

Operating voltage max.		80 V
Operating temperature	fixed installation	-25 °C to 70 °C
	during installation	0 °C to 50 °C
Min. bending radius mm	multiple bending	15 x outer diameter in mm
	single bedding	6 x outer diameter in mm
Max. tensile strength		150 N

Safety parameters

Reaction to fire		EN 50399 C _{ca} – s1a, d1, a1
Flame spread	single cable	IEC 60332-3-1
	bunched cables	IEC 60332-3-24
Zero halogen		IEC 60754-1 /-2
Smoke density		IEC 61034-1/ -2

Additional parameters

UV resistance		
Oil resistance		IEC 60811-2-1 (IRM 902, 4h at 70°C)
UL- /ETL-Style		cRUus AWM 22375 AWM I A/B 60°C 600V FT2
UL- /ETL-Listing		c(ETL)us, CMG / PLTC / Sun Res / OIL RES
RoHS 2011/65/EU		

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Electrical properties at 20 °C

Attenuation factor per length	at 10 MHz max.	0,06 dB/m
	at 100 MHz max.	0,22 dB/m
Relative symmetrical tolerance	at 1 MHz ... 100 MHz	15 %
Characteristic impedance	at 1 MHz ... 100 MHz	100 Ω
Near-end crosstalk per length	at 1 MHz ... 100 MHz	0,5 dB/m
Transfer impedance per length	at 10 MHz	10 mΩ/km
Loop resistance per length	max.	120 mΩ/km
Nominal Velocity of Propagation	max.	69 %

N° of cores and cross section mm ²	Outer diameter approx. mm	Weight approx. kg/km
2 x 2 x 0,64mm (AWG 22/7)	6,5	68

La version française de cette fiche technique est disponible sur demande.
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar.