



IE TP TRAIN CABLE 2X2;
CAT5 TP INSTALLATION CABLE F. TRAIN
APPLICATIONS,
FOR CONNECTION TO FC RJ45 PLUG 2X2,
FC M12 PLUG PRO 2X2;
TRAIN CERTIFIED, 4 WIRE,SHIELDED,
BY THE METER, MAX. CONSIGNMENT 1000 M,
MIN. ORDER QUANTITY 20 M

Acceptability for application

For laying in rail vehicles and buses

Electrical data

Damping ratio per length

- at 10 MHz / maximum
- at 100 MHz / maximum

0.053 dB/m
0.188 dB/m

Impedance

- for frequency range 1 MHz ... 100 MHz

100 Ω

Relative symmetrical tolerance

- of the surge impedance at 1 MHz ... 100 MHz

5 %

Near-end crosstalk per length

- at 1 MHz ... 100 MHz

0.5 dB/m

Transfer impedance / at 10 MHz

8 mΩ/m

Loop resistance per length / maximum

124 Ω/km

Operating voltage

- RMS value

125 V

Mechanical data

Number of electrical wires

4

Design of shield

Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires

Design of the electrical connection / FastConnect

No

Core diameter

• of the AWG22 core	0.75 mm
Outer diameter	
• of the inner conductor	0.75 mm
• of the wire insulation	1.5 mm
• of the cable sheath	6.6 mm
Symmetrical tolerance of outer diameter / of cable sheath	0.2 mm
Material	
• of the wire insulation	PE
• of the cable sheath	Elastomer meshed electron beam
Color	
• of the insulation of data wires	white / yellow / blue / orange
• of the cable sheath	Black
Bending radius	
• with single bend / minimum permissible	40 mm
• with multiple bends / minimum permissible	40 mm
Traction stress / maximum	150 N
Weight per length	71 kg/km
Permitted ambient conditions	
Ambient temperature	
• during operating	-40 ... +80 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• during installation	-20 ... +60 °C
• Comment	160°C temporarily under short-circuit conditions
Ambient condition / for (standard) operation mode	Electrical characteristics measured at 20 °C, tests according to EN50288-2-1
Burning behaviour	BS6853, DIN5510-2 Brandschutzstufe 1-4, prEN45545-2 Hazard Level HL1-HL3, EN50306-4, NF F 16-101, NFPA130
Chemical resistance	
• to mineral oil	EN 50306-4 (72h/100 °C, IRM 902, 168h/70 °C, IRM 903)
• to grease	Conditional resistance
• to water	Conditional resistance
Radiological resistance / to UV radiation	Resistant
Product properties, functions, components / general	
Product feature	
• halogen-free	Yes
• silicon-free	Yes
Cable length	
• with 100BaseTX / for Industrial Ethernet	100 m
Standards, specifications, approvals	

UL/ETL listing / with 300 V rating

No

UL/ETL style / with 600 V rating

No

Verification of suitability

- CE mark
- RoHS conformity

Yes

Yes

Standard for structured cabling

Cat5

Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS)
- Bureau Veritas (BV)
- Det Norske Veritas (DNV)
- Germanische Lloyd (GL)
- Lloyds Register of Shipping (LRS)
- Nippon Kaiji Kyokai (NK)
- Polski Rejestr Statkow (PRS)

No

No

No

No

No

No

No

letzte Änderung:

Jul 25, 2014