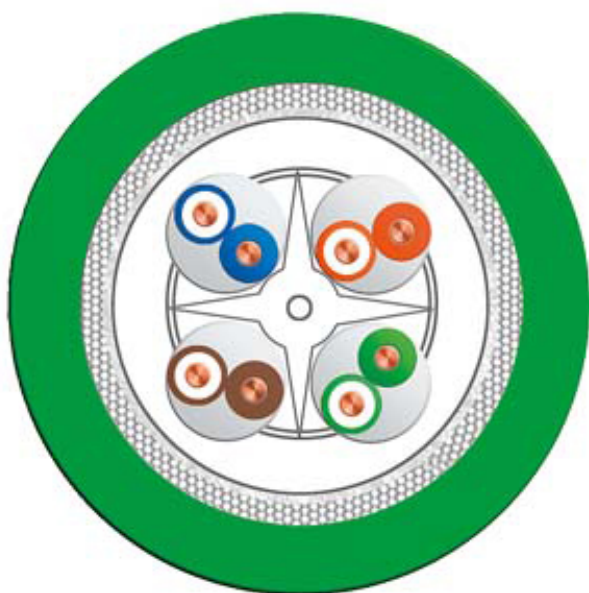




IE FC TP STANDARD CABLE GP 4X2,
TP-INSTALLATIONS CABLE CAT6 FOR CONNECTING TO
IE FC RJ45 PLUG 4X2,
AWG24, SOLD BY THE METER,
MAX. CONSIGNMENT: 1000 M,
MIN. LENGTH ORDERED: 20 M

Acceptability for application

Standard cable with rigid cores for fast, permanent installation

Electrical data

Damping ratio per length

• at 10 MHz / maximum	0.063 dB/m
• at 100 MHz / maximum	0.21 dB/m
• at 250 MHz / maximum	0.35 dB/m

Impedance

• for frequency range 1 MHz ... 100 MHz	100 Ω
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Near-end crosstalk per length

• at 1 MHz ... 250 MHz	0.383 dB/m
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Transfer impedance / at 10 MHz

20 m Ω /m

Loop resistance per length / maximum

180 Ω /km

Insulation resistance coefficient

5000 G Ω ·m

Operating voltage

• RMS value	100 V
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percentage NVP value

66 %

Mechanical data

Number of electrical wires

8

Design of shield

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

Design of the electrical connection / FastConnect

Yes

Core diameter	
• of the AWG24 core	0.51 mm
Outer diameter	
• of the inner conductor	0.51 mm
• of the wire insulation	1 mm
• of the inner sheath of the cable	5.8 mm
• of the cable sheath	8 mm
Symmetrical tolerance of outer diameter / of cable sheath	0.2 mm
Material	
• of the wire insulation	PE
• of the inner sheath of the cable	FRNC
• of the cable sheath	PVC
Color	
• of the insulation of data wires	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
• of the cable sheath	green
Bending radius	
• with single bend / minimum permissible	24 mm
• with multiple bends / minimum permissible	40 mm
Traction stress / maximum	100 N
Weight per length	78 kg/km
Permitted ambient conditions	
Ambient temperature	
• during operating	-40 ... +85 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
• during installation	-40 ... +80 °C
• Comment	Electrical characteristics measured at 20 °C, tests according to DIN VDE 0472
Burning behaviour	flame resistant according to IEC 60332-3-24 (Category C)
Chemical resistance	
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
• to grease	Conditional resistance
• to water	Conditional resistance
Radiological resistance / to UV radiation	Resistant
Product properties, functions, components / general	
Product feature	
• halogen-free	No
• silicon-free	Yes
Cable length	

- with 100BaseTX / for Industrial Ethernet
- with 1000BaseT / for Industrial Ethernet

100 m
100 m

Standards, specifications, approvals

UL/ETL listing / with 300 V rating

Yes: c(UL)us, CMG

UL/ETL style / with 600 V rating

No

Verification of suitability

- CE mark
- RoHS conformity

Yes
Yes

Standard for structured cabling

Cat6

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:

Aug 6, 2014