



SIMATIC NET,
IE FC TP STANDARD CABLE 4X2,
TP INSTALLATION CABLE,
CAT6 F. CONNECTION TO FC RJ45 MODULAR OUTLET,
AWG22 SOLD BY THE METER,
MAX. CONSIGNMENT: 1000 M MIN. ORDER QUANTITY:
20 M

Acceptability for application

Standard cable with rigid cores for fast, permanent installation

Electrical data

Damping ratio per length

• at 10 MHz / maximum	0.06 dB/m
• at 100 MHz / maximum	0.19 dB/m
• at 250 MHz / maximum	0.33 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

10 mΩ/m

Loop resistance per length / maximum

118 Ω/km

Insulation resistance coefficient

5000 GΩ·m

Operating voltage

• RMS value	100 V
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percentage NVP value

68 %

Mechanical data

Number of electrical wires

8

Design of shield

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

Design of the electrical connection / FastConnect

Yes

Core diameter	
• of the AWG22 core	0.64 mm
Outer diameter	
• of the inner conductor	0.64 mm
• of the wire insulation	1.25 mm
• of the inner sheath of the cable	7.6 mm
• of the cable sheath	9.6 mm
Symmetrical tolerance of outer diameter / of cable sheath	0.3 mm
Material	
• of the wire insulation	PE
• of the inner sheath of the cable	PVC
• of the cable sheath	PVC
Color	
• of the insulation of data wires	white/blue, white/orange, white/green, white/brown
• of the cable sheath	green
Bending radius	
• with single bend / minimum permissible	38 mm
• with multiple bends / minimum permissible	80 mm
Traction stress / maximum	180 N
Weight per length	104 kg/km
Permitted ambient conditions	
Ambient temperature	
• during operating	-40 ... +80 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• during installation	-40 ... +80 °C
Burning behaviour	flame resistant according to IEC 60332-1
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	90 m
• with 1000BaseT / for Industrial Ethernet	90 m

Standards, specifications, approvals

UL/ETL listing / with 300 V rating	Yes: c(UL)us, CMG, Sun Res
UL/ETL style / with 600 V rating	No
Verification of suitability	
• CE mark	Yes
• RoHS conformity	Yes
Standard for structured cabling	Cat6
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Germanische Lloyd (GL)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	No
• Polski Rejestr Statkow (PRS)	No

letzte Änderung:

Jun 28, 2014