



SIMATIC NET, IE FC TP STANDARD CABLE,
 GP 2X2 (PROFINET TYP A) TP INSTALLATION CABLE
 FOR CONNECTION TO FC OUTLET RJ45,
 FOR UNIVERSAL APPLICATION, 4-WIRE,
 SHIELDED, CAT. 5,
 SOLD BY THE METER MAX. CONSIGNMENT: 2000 M,
 MIN. ORDERING QUANTITY: 20 M

Electrical data

Damping ratio per length	
• at 10 MHz / maximum	0.052 dB/m
• at 100 MHz / maximum	0.195 dB/m
Impedance	
• for frequency range 1 MHz ... 100 MHz	100 Ω
Relative symmetrical tolerance	
• of the surge impedance at 1 MHz ... 100 MHz	15 %
Near-end crosstalk per length	
• at 1 MHz ... 100 MHz	0.5 dB/m
Transfer impedance / at 10 MHz	10 mΩ/m
Loop resistance per length / maximum	115 Ω/km
Operating voltage	
• RMS value	100 V
percentage NVP value	66 %

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	Yes
Core diameter	

• of the AWG22 core	0.64 mm
Outer diameter	
• of the inner conductor	0.64 mm
• of the wire insulation	1.5 mm
• of the inner sheath of the cable	3.9 mm
• of the cable sheath	6.5 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	PVC
• of the cable sheath	PVC
Color	
• of the insulation of data wires	white / yellow / blue / orange
• of the cable sheath	green
Bending radius	
• with single bend / minimum permissible	19.5 mm
• with multiple bends / minimum permissible	49 mm
Traction stress / maximum	150 N
Weight per length	67 kg/km
Permitted ambient conditions	
Ambient temperature	
• during operating	-40 ... +75 °C
• during storage	-40 ... +75 °C
• during transport	-40 ... +75 °C
• during installation	-20 ... +60 °C
• Comment	Electrical characteristics measured at 20 °C, tests according to DIN VDE 0472
Chemical resistance	
• to water	Conditional resistance
Product properties, functions, components / general	
Product feature	
• halogen-free	No
• [not supplied - silicon-free]	Yes
Cable length	
• with 100BaseTX / for Industrial Ethernet	100 m
Standards, specifications, approvals	
Verification of suitability	
• CE mark	Yes
• RoHS conformity	Yes
Standard for structured cabling	Cat5e

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:

Apr 6, 2013