



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

[nicht versorgt: TAK_ABR691_001_000]

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
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Relative symmetrical tolerance

• of the surge impedance at 1 MHz ... 100 MHz	15 %
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Near-end crosstalk per length

• at 1 MHz ... 100 MHz	0.5 dB/m
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Transfer impedance / at 10 MHz

10 m Ω /m

Loop resistance per length / maximum

115 Ω /km

Operating voltage

• RMS value	100 V
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Mechanical data

Number of electrical wires

4

Design of the electrical connection / FastConnect

Yes

Core diameter

• of the AWG22 core	0.64 mm
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Outer diameter

• of the inner conductor	0.64 mm
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• 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 cable sheath	PVC
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

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
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

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