



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
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

### Mechanical data

Number of electrical wires	4
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 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

**letzte Änderung:** Apr 10, 2012