



SIMATIC NET, PB FC STANDARD CABLE GP,
2-WIRE, SHIELDED,
SPECIAL DESIGN FOR RAPID INSTALLATION,
MAX. CONSIGNMENT: 1000 M,
MIN. ORDERING QUANTITY: 20 M SOLD BY THE METER

Electrical data

Damping ratio per length

• at 9.6 kHz / maximum	0.0025 dB/m
• at 38.4 kHz / maximum	0.0040 dB/m
• at 4 MHz / maximum	0.022 dB/m
• at 16 MHz / maximum	0.042 dB/m

Impedance

• Nominal value	150 Ω
• at 9.6 kHz	270 Ω
• at 38.4 kHz	185 Ω
• for frequency range 3 MHz ... 20 MHz	150 Ω

Relative symmetrical tolerance

• of the surge impedance at 9.6 kHz	10 %
• of the surge impedance at 38.4 kHz	10 %
• of the surge impedance at 3 MHz ... 20 MHz	10 %

Loop resistance per length / maximum

110 Ω/km

Shield resistance per length / maximum

9.5 Ω/km

Capacity per length / at 1 kHz

28.5 pF/m

Operating voltage

• RMS value	100 V
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Mechanical data

Number of electrical wires	2
Design of shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tinned copper wires
Design of the electrical connection / FastConnect	Yes
Outer diameter	
• of the inner conductor	0.65 mm
• of the wire insulation	2.55 mm
• of the inner sheath of the cable	5.4 mm
• of the cable sheath	8 mm
Symmetrical tolerance of outer diameter / of cable sheath	0.4 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	red / green
• of the cable sheath	Violet
Bending radius	
• with single bend / minimum permissible	37.5 mm
• with multiple bends / minimum permissible	75 mm
Traction stress / maximum	100 N
Weight per length	80 kg/km
Permitted ambient conditions	
Ambient temperature	
• during operating	-40 ... +75 °C
• during storage	-40 ... +75 °C
• during transport	-40 ... +75 °C
• during installation	-40 ... +75 °C
• Comment	Electrical characteristics measured at 20 °C, tests according to DIN 47250 Part 4 or DIN VDE 0472
Product properties, functions, components / general	
Product feature	
• halogen-free	No
• [not supplied - silicon-free]	Yes
Standards, specifications, approvals	
Verification of suitability	
• CE mark	Yes
• UL-registration	Yes
• RoHS conformity	Yes
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:

Mar 4, 2013