



SIMATIC NET, PB FC TRAILING CABLE,
 PROFIBUS TRAILING CABLE MAX.
 ACCELERATION: 4M/QS MIN. OF 3 MILL. BENDING
 CYCLES MIN. BENDING RADIUS: APPROX. 120 MM 2-
 WIRE,
 SHIELDED,
 SOLD BY METER MAX. CONSIGNMENT: 1000 M MIN.
 ORDERING QUANTITY: 20 M

Acceptability for application

Continuous motion control in a cable carrier

Electrical data

Damping ratio per length

• at 9.6 kHz / maximum	0.0030 dB/m
• at 38.4 kHz / maximum	0.0040 dB/m
• at 4 MHz / maximum	0.025 dB/m
• at 16 MHz / maximum	0.049 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

133 Ω/km

Shield resistance per length / maximum

14 Ω/km

Capacity per length / at 1 kHz

28 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	0.67 mm
• of the wire insulation	2.56 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	PUR (TPE-U)
Color	
• of the insulation of data wires	red / green
• of the cable sheath	Petrol
Bending radius	
• with single bend / minimum permissible	40 mm
• with continuous bending	120 mm
Number of bending cycles	3000000
Traction stress / maximum	100 N
Weight per length	77 kg/km

Permitted ambient conditions

Ambient temperature	
• during operating	-40 ... +60 °C
• during storage	-40 ... +60 °C
• during transport	-40 ... +60 °C
• during installation	-40 ... +60 °C
• Comment	Electrical characteristics measured at 20 °C, tests according to DIN 47250 Part 4 or DIN VDE 0472
Ambient condition / for (standard) operation mode	Limited segment length (see manual for PROFIBUS networks)
Burning behaviour	flame resistant according to IEC 60332-1-2
Chemical resistance	
• to mineral oil	oil resistant according to IEC 60811-2-1 (7x24h/90°C)
• to grease	Resistant
• to water	Conditional resistance
Radiological resistance / to UV radiation	Resistant

Product properties, functions, components / general

Product feature

- halogen-free
- silicon-free

No

Yes

Standards, specifications, approvals

UL/ETL listing / with 300 V rating

Yes: c(UL)us, CMX

UL/ETL style / with 600 V rating

No

Verification of suitability

- CE mark
- RoHS conformity

Yes

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:

Jun 28, 2014