

SIMATIC NET, PB FC TRAILING CABLE,
PROFIBUS TRAILING CABLE MAX. ACCELERATION
4M/QS MIN. 3 MIO BENDING CYCLES MIN. BENDING
RADIUS CA. 120 MM TWO-CORE SHIELDED,
SOLD BY THE 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 |
|-------------|-------|

Mechanical data

Number of electrical wires	2
Design of shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated 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	Violet
Bending radius	
• with single bend / minimum permissible	40 mm
• with continuous bending	120 mm
Number of bending cycles	3000000
• Note	For use in cable carriers, for 3 million bending cycles with a bending radius of 120 mm (15x D) and an acceleration of 4 m/s ²
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	No
• silicon-free	Yes

Standards, specifications, approvals

UL/ETL listing / with 300 V rating Yes: CMX

UL/ETL style / with 600 V rating No

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:

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