



SIMATIC NET,
IE FC TP FESTOON CABLE 2X2 (PROFINET TYPE B),
TP-INSTALLATION CABLE FOR FESTOON SUSPENSION,
4-WIRE CAT5E,
SOLD BY THE M, MIN. 5 MIO BENDING CYCLES,
CONSEIGNMENT MAX. 1000 M,
MIN. ORDER QUANTITY 20 M

Acceptability for application

For continuous motion in a trailing cable, festoon mounting

Electrical data

Damping ratio per length	
• at 10 MHz / maximum	0.063 dB/m
• at 100 MHz / maximum	0.213 dB/m
Impedance	
• for frequency range 1 MHz ... 100 MHz	100 Ω
Relative symmetrical tolerance	
• of the surge impedance at 1 MHz ... 100 MHz	5 %
Near-end crosstalk per length	
• at 1 MHz ... 100 MHz	0.5 dB/m
Transfer impedance / at 10 MHz	100 mΩ/m
Loop resistance per length / maximum	120 Ω/km
Operating voltage	
• RMS value	100 V
percentage NVP value	66 %

Mechanical data

Number of electrical wires	4
Design of shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
Design of the electrical connection / FastConnect	Yes

Core diameter	
• of the AWG22 core	0.75 mm
Outer diameter	
• of the inner conductor	0.75 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 the wire insulation	PE
• of the inner sheath of the cable	PVC
• of the cable sheath	PVC
Color	
• of the insulation of data wires	white / yellow / blue / orange
• of the cable sheath	green
Bending radius	
• with single bend / minimum permissible	30 mm
• with multiple bends / minimum permissible	70 mm
• with continuous bending	70 mm
Number of bending cycles	5000000
• Note	5 million bending cycles for a bending radius of 70 mm and an acceleration of 4 m/s ²
Traction stress / maximum	150 N
Weight per length	68 kg/km
Permitted ambient conditions	
Ambient temperature	
• during operating	-40 ... +75 °C
• during storage	-50 ... +75 °C
• during transport	-50 ... +75 °C
• during installation	-20 ... +60 °C
• Comment	Electrical characteristics measured at 20 °C, tests according to DIN VDE 0472
Burning behaviour	flame resistant according to UL 1685 (CSA FT 4)
Chemical resistance	
• to mineral oil	Conditional resistance
• to grease	Conditional resistance
• to water	Conditional resistance
Radiological resistance / to UV radiation	Resistant
Product properties, functions, components / general	
Product feature	

• halogen-free	No
• silicon-free	Yes
Cable length	
• with 100BaseTX / for Industrial Ethernet	85 m
Standards, specifications, approvals	
UL/ETL listing / with 300 V rating	Yes: c(UL)us, CMG / PLTC / Sun Res / OIL RES
UL/ETL style / with 600 V rating	yes
Verification of suitability	
• CE mark	Yes
• RoHS conformity	Yes
Standard for structured cabling	Cat5e
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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