

Product type designation

Product description

IE FC TP Flexible Cable GP 2 x 2 (Type B)

Flexible bus cable (4-core), sold by the meter, unassembled SIMATIC NET, IE FC FLEXIBLE CABLE, GP 2X2 (PROFINET TYP B) TP INSTALLATION CABLE W. FLEXIBLE CORES, PROFINET TYPE B, 4-WIRE, SHIELDED, CAT 5, SOLD BY THE M, MAX. CONSIGNMENT: 1000 M, MIN. ORDERING QUANTITY: 20 M



Figure similar

Suitability for use

For occasionally moved machine parts

Electrical data

Damping ratio per length	
<ul style="list-style-type: none"> at 10 MHz / maximum at 100 MHz / maximum 	<p>0.06 dB/m</p> <p>0.21 dB/m</p>
Impedance	
<ul style="list-style-type: none"> at 1 MHz ... 100 MHz 	100 Ω
Relative symmetrical tolerance	
<ul style="list-style-type: none"> of the characteristic impedance at 1 MHz ... 100 MHz 	15 %
Near-end crosstalk per length	
<ul style="list-style-type: none"> at 1 MHz ... 100 MHz 	0.5 dB/m
Transfer impedance per length / at 10 MHz	20 mΩ/m
Loop resistance per length / maximum	120 mΩ/m
Operating voltage	
<ul style="list-style-type: none"> RMS value 	100 V
NVP value in percent	66 %

Mechanical data

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

<ul style="list-style-type: none"> • of AWG22 core 	0.75 mm
Outer diameter	
<ul style="list-style-type: none"> • of inner conductor • of the wire insulation • of the inner sheath of the cable • of cable sheath 	0.75 mm 1.5 mm 3.9 mm 6.5 mm
Symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
Material	
<ul style="list-style-type: none"> • of the wire insulation • of the inner sheath of the cable • of cable sheath 	PE PVC PVC
Color	
<ul style="list-style-type: none"> • of the insulation of data wires • of cable sheath 	white / yellow / blue / orange green
Bending radius	
<ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	32.5 mm 52 mm
Tensile load / maximum	150 N
Weight per length	68 kg/km

Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport • during installation • Note 	-25 ... +75 °C -25 ... +75 °C -25 ... +75 °C -10 ... +60 °C electrical properties measured at 20 Cel, tests according to DIN VDE 0472
Burning behavior	flame resistant according to UL 1685 (CSA FT4)
Chemical resistance	
<ul style="list-style-type: none"> • to mineral oil • to grease • to water 	Conditional resistance Conditional resistance Conditional resistance
Radiological resistance / to UV radiation	resistant

Product properties, functions, components / general

Product property	
<ul style="list-style-type: none"> • halogen-free • silicon-free 	No Yes
Cable length / for Industrial Ethernet	
<ul style="list-style-type: none"> • with 100BaseTX 	85 m

Standards, specifications, approvals

UL/ETL listing / 300 V Rating	Yes
UL/ETL style / 600 V Rating	No
Certificate of suitability	
• CE marking	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

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/automation/net/catalog
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
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