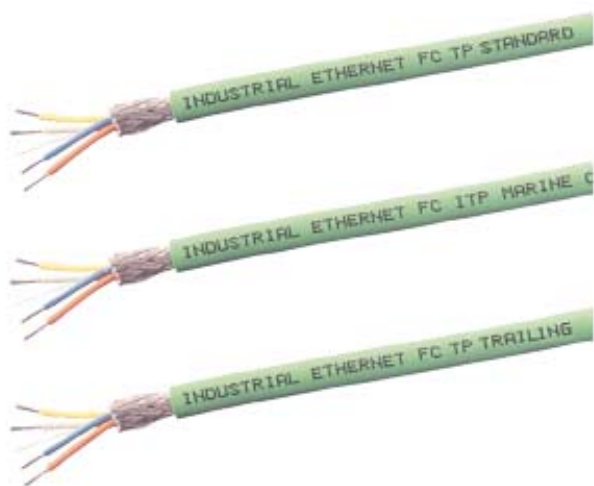


Product-type designation

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



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

Acceptability for application

For occasionally moved machine parts

Cable designation

2YY (ST) CY 2x2x0,75/1,5-100 LI GN

Electrical data

Damping ratio per length

- at 10 MHz / maximum
- at 100 MHz / maximum

0.06 dB/m

0.21 dB/m

Impedance

- for frequency range 1 MHz ... 100 MHz

100 Ω

Relative symmetrical tolerance

- of the surge impedance at 1 MHz ... 100 MHz

15 %

Near-end crosstalk per length

- at 1 MHz ... 100 MHz

0.5 dB/m

Transfer impedance per length / at 10 MHz

20 m Ω /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	32.5 mm
• with multiple bends / minimum permissible	52 mm
Traction stress / maximum	150 N
Weight per length	68 kg/km
Permitted ambient conditions	
Ambient temperature	
• during operating	-25 ... +75 °C
• during storage	-25 ... +75 °C
• during transport	-25 ... +75 °C
• during installation	-10 ... +60 °C
• Comment	Electrical characteristics measured at 20 °C, tests according to DIN VDE 0472
Burning behaviour	flame resistant according to UL 1685 (CSA FT4)
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	No
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
Further Information / Internet Links	
Internet-Link	
• to website: Industry Mall	https://www.siemens.com/industrymall
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• 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
• to website: Industry Online Support	http://support.automation.siemens.com
letzte Änderung:	Aug 25, 2014