

Product-type designation

IE FC TP Standard Cable GP 2 x 2 (Type A)



SIMATIC NET, IE FC TP STANDARD CABLE, GP 2X2 (PROFINET TYP A), TP INSTALLATION CABLE FOR CONNECTION TO FC OUTLET RJ45, FOR UNIVERSAL APPLICATION, 4-WIRE, SHIELDED, CAT. 5E, SOLD BY THE METER MAX. CONSIGNMENT: 2000 M, MINIMAL ORDER QUANTITY: 20 M

Acceptability for application

Standard cable with rigid cores for fast installation

Cable designation

2YY (ST) CY 2x2x0,64/1,5-100 GN

Electrical data

Damping ratio per length

- at 10 MHz / maximum 0.052 dB/m
- at 100 MHz / maximum 0.195 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

10 mΩ/m

Loop resistance per length / maximum

115 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	0.64 mm
[nicht versorgt: PMD_ACA608_001_000]	
• of the inner conductor	0.64 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	19.5 mm
• with multiple bends / minimum permissible	49 mm
Traction stress / maximum	150 N
Weight per length	67 kg/km
Permitted ambient conditions	
Ambient temperature	
• during operating	-40 ... +75 °C
• during storage	-40 ... +75 °C
• during transport	-40 ... +75 °C
• during installation	-20 ... +60 °C
Burning behaviour	flame resistant according to UL 1685 (CSA FT4)
Radiological resistance / to UV radiation	Resistant
Chemical resistance	
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
• to grease	Conditional resistance
• to water	Conditional resistance
Product properties, functions, components / general	
Product feature	
• halogen-free	No
• silicon-free	Yes
Cable length	

- with 100BaseTX / for Industrial Ethernet

100 m

Standards, specifications, approvals

UL/ETL listing / with 300 V rating

Yes: cULus / CMG / PLTC/ ITC(UL) / Sun Res

UL/ETL style / with 600 V rating

yes

Verification of suitability

- CE mark
- RoHS conformity

Yes

Yes

Standard for structured cabling

Cat5e

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

Further Information / Internet Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<http://www.siemens.com/automation/net/catalog>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<http://support.automation.siemens.com>

letzte Änderung:

Sep 19, 2014