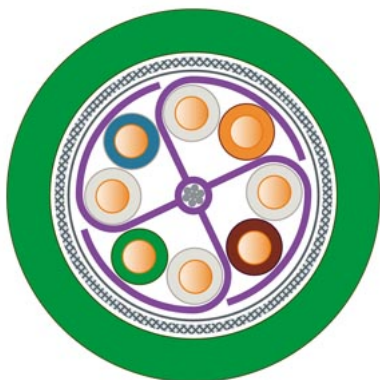


product type designation

product description



IE FC TP standard cable GP 4x2, CAT7, sold by the meter

shielded TP installation cable (8-wire) with rigid cores, sold by the meter, unassembled

IE FC TP Standard Cable GP 4x2; FastConnect Standard Cable GP 4x 2, TP installation CAT7 cable for connection to IE FC RJ45 plug 4x 2 and IE FC M12 plug PRO 4x2, AWG25, sold by the meter, package item max. 2000 m minimum order quantity 20 m

product brand name

SIMATIC NET

Technical Product Detail Page

<https://i.siemens.com/1P6XV1876-2A>

suitability for use

Standard cable with rigid cores for fast, permanent installation

cable designation

SF/FTP, 2YCY 4X2X0.45/1.15-100LI PIMF GN

electrical data

attenuation factor per length

• at 10 MHz / maximum	0.059 dB/m
• at 100 MHz / maximum	0.19 dB/m
• at 300 MHz / maximum	0.342 dB/m
• at 600 MHz / maximum	0.501 dB/m

impedance

• at 1 MHz ... 100 MHz	100 Ω
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near-end crosstalk per length

• at 10 MHz	0.78 dB/m
• at 100 MHz	0.724 dB/m
• at 300 MHz	0.652 dB/m
• at 600 MHz	0.607 dB/m

loop resistance per length / maximum

290 mΩ/m

operating voltage

• RMS value	100 V
• maximum	100 V

NVP value in percent

69 %

mechanical data

number of electrical cores

8

design of the shield

SF/FTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires, central shielding wire of the line must be connected to the shield contact during plug assembly (see assembly video)

type of electrical connection / FastConnect

Yes

outer diameter

• of inner conductor	0.45 mm
• of dielectric	3.8 mm
• of the wire insulation	1.15 mm
• of cable sheath	8 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.2 mm

material

• of the wire insulation	polyethylene (PE)
• of cable sheath	PVC

color	
• of the insulation of data wires • of cable sheath	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown green
bending radius	
• with single bend / minimum permissible • with multiple bends / minimum permissible	40 mm 80 mm
tensile load / maximum	100 N
weight per length	69 kg/km
ambient conditions	
ambient temperature	
• during operation • during storage • during transport • during installation	-40 ... +70 °C -40 ... +70 °C -40 ... +70 °C -30 ... +70 °C
fire behavior	flame resistant according to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
• to mineral oil • to grease • to water	oil resistant according to EN 50290-2-22 (VDE 0819), compound type TM55 (7x24h/90 °C) Conditional resistance conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components / general	
product feature	
• halogen-free • PoE capability • PoE+ capability • PoE++ capability • silicon-free	No Yes Yes Yes Yes
wire length / for Industrial Ethernet	
• with 100BaseTX • with 1000BaseT • for 10GBase T • for 2.5GBaseT • for 5GBaseT	100 m 100 m 70 m 100 m 100 m
test voltage	
• at AC / core-to-core • at AC / core shield	2000 V 2000 V
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes
UL/ETL style / 600 V Rating	Yes
certificate of suitability	
• EAC approval • CE marking • RoHS conformity	Yes Yes Yes
product conformity	
• ANSI/TIA-EIA 568-B.2 Cat.5e • IEC 61784-5-2-CP 2/2 (Ethernet/IP)	Yes Yes
standard for structured cabling	Cat7
• resistance to air pollution / conformity according to ANSI/ISA-71.04	Yes; G3
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK)	No No No No No No

- Polski Rejestr Statkow (PRS)

No

further information / internet links

internet link

- to website: Selection guide for cables and connectors
- to web page: selection aid TIA Selection Tool
- to web page: SiePortal
- to website: Image database
- to website: CAX-Download-Manager
- to website: Industry Online Support

<https://support.industry.siemens.com/cs/ww/en/view/109766358>
<https://www.siemens.com/tstcloud>
<https://sieportal.siemens.com/>
<https://www.automation.siemens.com/bilddb>
<https://www.siemens.com/cax>
<https://support.industry.siemens.com>

security information

security information

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Approvals / Certificates

General Product Approval

other

Environment

[Manufacturer Declaration](#)



[Declaration of Conformity](#)

[Miscellaneous](#)

[Environmental Conformations](#)

Environment

[Environmental Conformations](#)

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3/10/2026