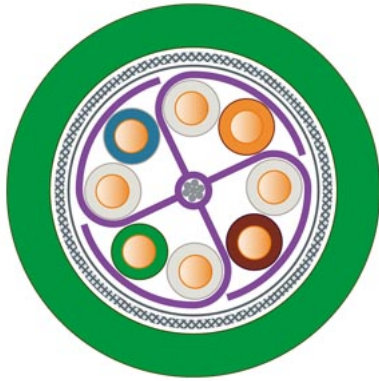


product type designation

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

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	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
• of cable sheath	green

bending radius	
<ul style="list-style-type: none"> with single bend / minimum permissible with multiple bends / minimum permissible 	<p>40 mm</p> <p>80 mm</p>
tensile load / maximum	100 N
weight per length	69 kg/km
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation during storage during transport during installation 	<p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p> <p>-30 ... +70 °C</p>
fire behavior	flame resistant according to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
<ul style="list-style-type: none"> to mineral oil to grease to water 	<p>oil resistant according to EN 50290-2-22 (VDE 0819), compound type TM55 (7x24h/90 °C)</p> <p>Conditional resistance</p> <p>conditional resistance</p>
radiological resistance / to UV radiation	resistant
product features, product functions, product components / general	
product feature	
<ul style="list-style-type: none"> halogen-free PoE capability PoE+ capability PoE++ capability silicon-free 	<p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
wire length / for Industrial Ethernet	
<ul style="list-style-type: none"> with 100BaseTX with 1000BaseT for 10GBase T for 2.5GBaseT for 5GBaseT 	<p>100 m</p> <p>100 m</p> <p>70 m</p> <p>100 m</p> <p>100 m</p>
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes
UL/ETL style / 600 V Rating	Yes
certificate of suitability	
<ul style="list-style-type: none"> EAC approval CE marking RoHS conformity 	<p>Yes</p> <p>Yes</p> <p>Yes</p>
product conformity	
<ul style="list-style-type: none"> ANSI/TIA-EIA 568-B.2 Cat.5e IEC 61784-5-2-CP 2/2 (Ethernet/IP) 	<p>Yes</p> <p>Yes</p>
standard for structured cabling	Cat7
Marine classification association	
<ul style="list-style-type: none"> 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) Polski Rejestr Statkow (PRS) 	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
reference code	
<ul style="list-style-type: none"> according to IEC 81346-2 according to IEC 81346-2:2019 	<p>WG</p> <p>WGB</p>
further information / internet links	
internet link	
<ul style="list-style-type: none"> 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 	<p>https://support.industry.siemens.com/cs/ww/en/view/109766358</p> <p>https://www.siemens.com/tstcloud</p> <p>https://sieportal.siemens.com/</p> <p>https://www.automation.siemens.com/bilddb</p> <p>https://www.siemens.com/cax</p>

security information

security information

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Approvals / Certificates

General Product Approval

Environment

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[Environmental Conformations](#)

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