

product type designation

product description



IE FC TP Standard Cable GP 4x2 (AWG 24, Type C)

Shielded TP installation cable (8-wire), preferred length, unassembled

IE FastConnect TP standard GP cable 4x 2 (Type C); TP Installation cable CAT6A for connection to IE FC RJ45 Plug 4x 2; AWG24; delivery unit 1000 m.

suitability for use	Standard cable with rigid cores for fast, permanent installation
cable designation	2YH (ST) CY 4x2x0,5/1,0 GN
wire length	1000 m
electrical data	
attenuation factor per length	
• at 10 MHz / maximum	0.058 dB/m
• at 100 MHz / maximum	0.191 dB/m
• at 250 MHz / maximum	0.311 dB/m
• at 300 MHz / maximum	0.343 dB/m
• at 500 MHz / maximum	0.453 dB/m
impedance	
• at 1 MHz ... 100 MHz	100 Ω
near-end crosstalk per length	
• at 1 MHz ... 100 MHz	0.453 dB/m
• at 1 MHz ... 250 MHz	0.393 dB/m
• at 1 MHz ... 300 MHz	0.381 dB/m
• at 1 MHz ... 500 MHz	0.348 dB/m
coupling loss / at 30 MHz ... 100 MHz / minimum	80 dB
transfer impedance per length / at 10 MHz	20 mΩ/m
loop resistance per length / maximum	190 mΩ/m
insulation resistance coefficient	5000 GΩ·m
operating voltage	
• RMS value	80 V
• maximum	80 V
NVP value in percent	67 %
mechanical data	
number of electrical cores	8
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	
• of AWG24 insulated conductor	0.51 mm
outer diameter	
• of inner conductor	0.51 mm
• of the wire insulation	1 mm
• of the inner sheath of the cable	6.1 mm
• of cable sheath	8 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 	<p>polyethylene (PE) FRNC PVC</p>
color	<ul style="list-style-type: none"> of the insulation of data wires of cable sheath 	<p>white-blue/blue, white-orange/orange, white-green/green, white-brown/brown green</p>
bending radius	<ul style="list-style-type: none"> with single bend / minimum permissible with multiple bends / minimum permissible 	<p>24 mm 40 mm</p>
tensile load / maximum		100 N
weight per length		76 kg/km
ambient conditions		
ambient temperature	<ul style="list-style-type: none"> during operation during storage during transport during installation 	<p>-40 ... +85 °C -40 ... +80 °C -40 ... +80 °C -40 ... +80 °C</p>
ambient condition / for operation		Temperature range for permanent installation -40 °C to +85 °C
fire behavior		flame resistant according to IEC 60332-3-24 (Category C)
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 IEC 60811-2-1 (4 h / 70°C) Conditional resistance 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 silicon-free 	<p>No Yes</p>
wire length / for Industrial Ethernet	<ul style="list-style-type: none"> with 100BaseTX with 1000BaseT for 10GBase T 	<p>100 m 100 m 90 m</p>
standards, specifications, approvals		
UL/ETL listing / 300 V Rating		Yes; c(UL)us, CMG, AWM-Style 21500, cRU AWM I A/B 60°C 300V FT2
UL/ETL style / 600 V Rating		No
certificate of suitability	<ul style="list-style-type: none"> EAC approval CE marking RoHS conformity 	<p>Yes Yes 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 Yes</p>
standard for structured cabling		Cat6A
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 No No No No No No</p>
reference code	<ul style="list-style-type: none"> according to IEC 81346-2 according to IEC 81346-2:2019 	<p>WG WGB</p>
further information / internet-Links		
Internet-Link	<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool to website: Industrial communication 	<p>http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net</p>

- to website: Industry Mall
- to website: Information and Download Center
- to website: Selection guide for cables and connectors
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

<https://mall.industry.siemens.com>
<http://www.siemens.com/industry/infocenter>
<https://sie.ag/2QdlxcP>
<http://automation.siemens.com/bilddb>
<http://www.siemens.com/cax>
<https://support.industry.siemens.com>

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