

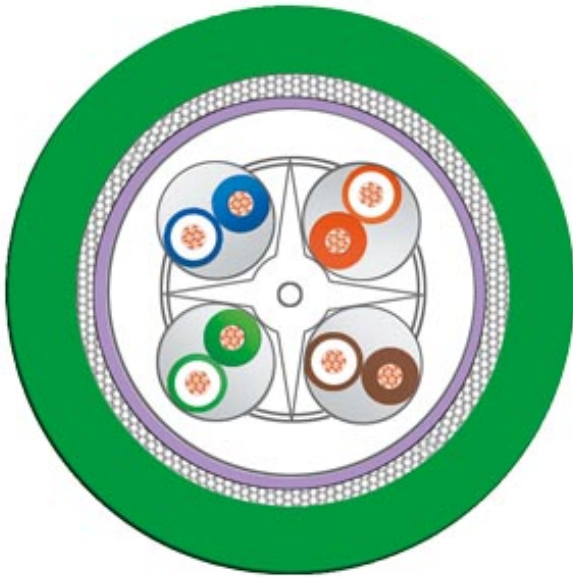
Product type designation

Product description

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

Shielded TP installation cable (8-core), sold by the meter, unassembled

Industrial Ethernet FastConnect TP standard cable GP 4x 2, TP installation Cable CAT6A for connection to IE FC RJ45 plug 4x 2, AWG24, sold by the meter, delivery length max. 1000 m minimum order 20 m



Suitability for use	Standard cable with rigid cores for fast, permanent installation
Cable designation	2YH (ST) CY 4x2x0,5/1,0 GN
Electrical data	
Damping ratio per length	
<ul style="list-style-type: none"> at 10 MHz / maximum at 100 MHz / maximum at 250 MHz / maximum at 300 MHz / maximum at 500 MHz / maximum 	0.058 dB/m 0.191 dB/m 0.311 dB/m 0.343 dB/m 0.453 dB/m
Impedance	
<ul style="list-style-type: none"> at 1 MHz ... 100 MHz 	100 Ω
Near-end crosstalk per length	
<ul style="list-style-type: none"> at 1 MHz ... 100 MHz at 1 MHz ... 250 MHz at 1 MHz ... 300 MHz at 1 MHz ... 500 MHz 	0.453 dB/m 0.393 dB/m 0.381 dB/m 0.348 dB/m

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 the AWG24 core	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	
• of the wire insulation	PE
• of the inner sheath of the cable	FRNC
• 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	
• with single bend / minimum permissible	24 mm
• with multiple bends / minimum permissible	40 mm
Tensile load / maximum	100 N
Weight per length	76 kg/km

Permitted ambient conditions

Ambient temperature	
• during operation	-40 ... +85 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• during installation	-40 ... +80 °C
Ambient condition / for operation	Temperature range for permanent installation -40 °C to +85 °C
Burning 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 	oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance conditional resistance
Radiological resistance / to UV radiation	resistant

Product properties, functions, components / general

Product feature <ul style="list-style-type: none"> • halogen-free • silicon-free 	No Yes
Wire length / for Industrial Ethernet <ul style="list-style-type: none"> • with 100BaseTX • with 1000BaseT • for 10GBase T 	100 m 100 m 90 m

Standards, specifications, approvals

UL/ETL listing / 300 V Rating	Yes
UL/ETL style / 600 V Rating	No
Certificate of suitability <ul style="list-style-type: none"> • CE marking • RoHS conformity 	Yes Yes
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) 	Yes Yes
Standard for structured cabling	Cat6A
Marine classification association <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center 	http://www.siemens.com/snst http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter
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- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

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

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

<https://support.industry.siemens.com>

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