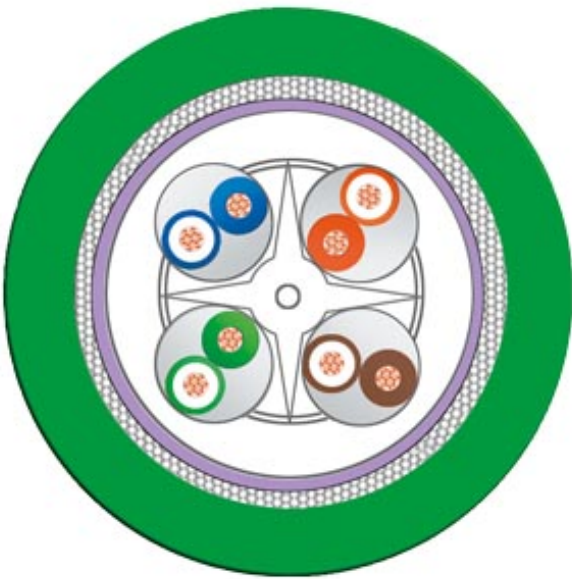


Product type designation
Product description

IE FC TP Standard Cable GP 4x2 (AWG 24, Type C)
Shielded TP installation cable (8-core), sold by the meter,
unassembled
IE FC TP STANDARD CABLE GP 4X2, TP-INSTALLATIONS CABLE
CAT6A FOR CONNECTING TO IE FC RJ45 PLUG 4X2, AWG24,
SOLD BY THE METER, MAX. CONSIGNMENT: 1000 M, MIN.
LENGTH ORDERED: 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	
• 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

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	89 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)

Chemical resistance	
• 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	
• halogen-free • silicon-free	No Yes
Wire length / for Industrial Ethernet	
• 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	Yes
Certificate of suitability	
• CE marking • RoHS conformity	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	Cat6A
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: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAX Download Manager	http://www.siemens.com/snst http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax

- to website: Industry Online Support

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

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