

Product type designation

Product description

IE FC TP Trailing Cable GP 4X2 (AWG 24, Type C)

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

IE FC TP Trailing Cable GP 4x2 TP installation cable CAT6A AWG 24, 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	Flexible cable for fast installation, for installation in trailing cables
Cable designation	2YH(ST)C11Y 4X2X0.6/1.04-100 LI GN
Electrical data	
Damping ratio per length	
<ul style="list-style-type: none"> at 10 MHz / maximum 	0.089 dB/m
<ul style="list-style-type: none"> at 100 MHz / maximum 	0.287 dB/m
<ul style="list-style-type: none"> at 250 MHz / maximum 	0.466 dB/m
<ul style="list-style-type: none"> at 300 MHz / maximum 	0.514 dB/m
<ul style="list-style-type: none"> at 500 MHz / maximum 	0.679 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 	0.453 dB/m
<ul style="list-style-type: none"> at 1 MHz ... 250 MHz 	0.393 dB/m
<ul style="list-style-type: none"> at 1 MHz ... 300 MHz 	0.381 dB/m
<ul style="list-style-type: none"> at 1 MHz ... 500 MHz 	0.348 dB/m

Transfer impedance per length / at 10 MHz	80 mΩ/m
Loop resistance per length / maximum	180 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	0.58 mm
• of the wire insulation	1.04 mm
• of the inner sheath of the cable	6.5 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 the inner sheath of the cable	FRNC
• of cable sheath	PUR
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	32 mm
• with multiple bends / minimum permissible	64 mm
• with continuous bending	120 mm
Number of bending cycles	1000000; For use in trailing cables, with a bending radius of 120 mm, a speed of 4 m/s, and an acceleration of 4 m/s ²
Tensile load / maximum	100 N
Weight per length	102 kg/km

Ambient conditions

Ambient temperature	
• during operation	-30 ... +70 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C

<ul style="list-style-type: none"> during installation Note 	-30 ... +70 °C In fixed installation -40 °C to 80 °C
Burning 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 	oil resistant according to IEC 60811-404 (7x24h/90°C) Conditional resistance conditional resistance
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 	Yes Yes
Wire length / for Industrial Ethernet <ul style="list-style-type: none"> with 100BaseTX with 1000BaseT for 10GBase T 	50 m 50 m 50 m

Standards, specifications, approvals

UL/ETL listing / 300 V Rating	Yes; c(ETL)us CMX, AWM-Style 21329
UL/ETL style / 600 V Rating	Yes
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) 	No 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 	http://www.siemens.com/snst
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- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<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>

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

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