

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 unit max. 1000 m minimum order quantity 20 m.

Technical Product Detail Page

<https://l.siemens.com/1P6XV1878-2C>

suitability for use

Flexible cable for fast installation, for installation in trailing cables

cable designation

SF/UTP, 2YH(ST)C11Y 4X2X0.6/1.04-100 LI GN

wire length

sold by the meter

electrical data

attenuation factor per length

| | |
|------------------------|------------|
| • at 10 MHz / maximum | 0.089 dB/m |
| • at 100 MHz / maximum | 0.287 dB/m |
| • at 250 MHz / maximum | 0.466 dB/m |
| • at 300 MHz / maximum | 0.514 dB/m |
| • at 500 MHz / maximum | 0.679 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

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

69 %

mechanical data

number of electrical cores

8

design of the shield

SF/UTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires

type of electrical connection / FastConnect

Yes

core diameter

| | |
|--------------------------------|---------|
| • of AWG24 insulated conductor | 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 |
| • during installation | -30 ... +70 °C |
| • note | In fixed installation -40 °C to 80 °C |
| fire behavior | flame resistant according to IEC 60332-1-2 |
| class of burning behaviour / according to EN 13501-6 | Eca |
| chemical resistance | |
| • to mineral oil | oil resistant according to IEC 60811-404 (7x24h/90°C) |
| • to grease | Conditional resistance |
| • to water | conditional resistance |
| radiological resistance / to UV radiation | resistant |
| product features, product functions, product components / general | |
| product feature | |
| • halogen-free | Yes |
| • PoE capability | Yes |
| • PoE+ capability | Yes |
| • PoE++ capability | Yes |
| • silicon-free | Yes |
| wire length / for Industrial Ethernet | |
| • with 100BaseTX | 100 m |
| • with 1000BaseT | 100 m |
| • for 10GBase T | 80 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 | |
| • EAC approval | Yes |
| • CE marking | Yes |
| • RoHS conformity | Yes |
| product conformity | |
| • ANSI/TIA-EIA 568-B.2 Cat.5e | No |
| • IEC 61784-5-2-CP 2/2 (Ethernet/IP) | Yes |
| standard for structured cabling | Cat6A |
| Marine classification association | |
| • American Bureau of Shipping Europe Ltd. (ABS) | No |
| • French marine classification society (BV) | No |
| • Det Norske Veritas (DNV) | No |
| • Germanische Lloyd (GL) | No |
| • Lloyds Register of Shipping (LRS) | No |

- Nippon Kaiji Kyokai (NK)
- Polski Rejestr Statkow (PRS)

No
No

further information / internet links

internet link

- 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
- to website: Industry Online Support

<https://support.industry.siemens.com/cs/ww/en/view/109766358>
<https://www.siemens.com/tstcloud>
<https://sieportal.siemens.com/>
<https://www.automation.siemens.com/bilddb>
<https://www.siemens.com/cax>
<https://support.industry.siemens.com>

security information

security information

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Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)

[China RoHS](#)

[Fire safety / Physical security](#)

| General Product Approval | other | Environment | Industrial Communication |
|---|-------------------------------|---|--------------------------|
| Declaration of Conformity | Miscellaneous | Environmental Conformations | PROFINET |

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