

product type designation

product description

IE TP Cord RJ45/RJ45, 4x2

Patch cable, preferred length, preassembled with two RJ45 connectors (10/100/1000/10000MB)

Industrial Ethernet TP Cord RJ45/RJ45, CAT 6A, TP cable 4x2 (yellow), pre-assembled with 2 x RJ45 plugs, length 1 m.



suitability for use

Easy connection of terminal devices to the IE FC cabling system

cable designation

S/FTP, LI 02YSCH 4x2x0,15 PIMF YL FRNC

wire length

1 m

electrical data

number of electrical connections

2

attenuation factor per length

| | |
|------------------------|------------|
| • at 10 MHz / maximum | 0.086 dB/m |
| • at 100 MHz / maximum | 0.28 dB/m |
| • at 300 MHz / maximum | 0.485 dB/m |
| • at 600 MHz / maximum | 0.675 dB/m |

impedance

| | |
|-------------------------|-------|
| • at 1 MHz ... 100 MHz | 100 Ω |
| • at 10 MHz ... 600 MHz | 100 Ω |

relative symmetrical tolerance

| | |
|--|-----|
| • of the characteristic impedance at 1 MHz ... 100 MHz | 5 % |
|--|-----|

coupling loss / at 30 MHz ... 100 MHz / minimum

85 dB

transfer impedance per length / at 10 MHz

10 mΩ/m

loop resistance per length / maximum

290 mΩ/m

operating voltage

| | |
|-------------|------|
| • RMS value | 80 V |
|-------------|------|

NVP value in percent

76 %

mechanical data

number of electrical cores

8

design of the shield

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

core diameter

| | |
|--------------------------------|--------|
| • of AWG26 insulated conductor | 0.5 mm |
|--------------------------------|--------|

outer diameter

| | |
|--------------------------|--------|
| • of inner conductor | 0.5 mm |
| • of the wire insulation | 1 mm |
| • of cable sheath | 6.2 mm |

symmetrical tolerance of the outer diameter / of cable sheath

0.3 mm

material

| | |
|--------------------------|-------------------|
| • of the wire insulation | polyethylene (PE) |
| • of cable sheath | FRNC |

color

| | |
|-----------------------------------|--|
| • of the insulation of data wires | white/blue, white/orange, white/green, white/brown |
| • of cable sheath | yellow |

| | |
|--|---|
| bending radius | |
| • with single bend / minimum permissible | 31 mm |
| • with multiple bends / minimum permissible | 62 mm |
| weight per length | 46 kg/km |
| plug | |
| connector type | RJ45 |
| type of plug interlock | latched |
| design of plug-in connection | RJ45-180 |
| ambient conditions | |
| ambient temperature | |
| • during operation | -25 ... +80 °C |
| • during storage | -25 ... +80 °C |
| • during transport | -25 ... +80 °C |
| • during installation | -25 ... +80 °C |
| • note | In fixed installation -40 °C to 80 °C |
| fire behavior | flame resistant according to IEC 60332-1-2, smoke density according to IEC 61034 |
| class of burning behaviour / according to EN 13501-6 | Eca |
| chemical resistance | |
| • to mineral oil | oil resistant according to IEC 60811-2-1 (4 h / 70°C) |
| • to grease | Conditional resistance |
| radiological resistance / to UV radiation | not resistant |
| protection class IP | IP20 |
| product features, product functions, product components / general | |
| product feature | |
| • halogen-free | Yes |
| • PoE capability | Yes |
| • PoE+ capability | Yes |
| • PoE++ capability | Yes |
| • silicon-free | Yes |
| test voltage | |
| • at AC / core-to-core | 500 V |
| • at AC / core shield | 1500 V |
| standards, specifications, approvals | |
| UL/ETL listing / 300 V Rating | No |
| UL/ETL style / 600 V Rating | Yes; E502506 AWM STYLE 21279 |
| certificate of suitability | ISO/IEC 11801-1, IEC 61035 |
| • EAC approval | Yes |
| • UL approval | Yes |
| • RoHS conformity | 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) | No |
| • Polski Rejestr Statkow (PRS) | No |
| reference code | |
| • according to IEC 81346-2 | WG |
| • according to IEC 81346-2:2019 | WGB |
| further information / internet links | |
| internet link | |
| • to website: Selection guide for cables and connectors | https://support.industry.siemens.com/cs/ww/en/view/109766358 |
| • to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| • to web page: SiePortal | https://sieportal.siemens.com/ |
| • to website: Image database | https://www.automation.siemens.com/bilddb |
| • to website: CAX-Download-Manager | https://www.siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |
| security information | |

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Approvals / Certificates

General Product Approval



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