

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, pre-assembled with 2 RJ45 connectors, length 1 m.



suitability for use

Easy connection of terminal devices to the IE FC cabling system

cable designation

LI 02YSCH 4x2x0,15 PIMF GN 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 | 0.501 dB/m |
| • at 600 MHz / maximum | 0.735 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 | 15 % |
| • of the characteristic impedance at 10 MHz ... 600 MHz | 10 % |

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

70 dB

transfer impedance per length / at 10 MHz

10 mΩ/m

loop resistance per length / maximum

290 mΩ/m

insulation resistance coefficient

500 GΩ·m

operating voltage

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

NVP value in percent

80 %

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

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

| | |
|---|--|
| <ul style="list-style-type: none"> • of the insulation of data wires • of cable sheath | white/blue, white/orange, white/green, white/brown green |
| bending radius | |
| <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible | 31 mm 43.5 mm |
| weight per length | 50 kg/km |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation • note | -25 ... +80 °C -25 ... +80 °C -25 ... +80 °C -25 ... +80 °C 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 | |
| <ul style="list-style-type: none"> • to mineral oil • to grease | oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance |
| radiological resistance / to UV radiation | not resistant |
| protection class IP | IP20 |
| product features, product functions, product components / general | |
| product feature | |
| <ul style="list-style-type: none"> • halogen-free • silicon-free | Yes Yes |
| standards, specifications, approvals | |
| UL/ETL listing / 300 V Rating | No |
| UL/ETL style / 600 V Rating | Yes; E130266 AWM STYLE 21279 |
| certificate of suitability | |
| <ul style="list-style-type: none"> • EAC approval • UL approval • RoHS conformity | Yes Yes Yes |
| standard for structured cabling | Cat6A |
| Marine classification association | |
| <ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (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 |
| reference code | |
| <ul style="list-style-type: none"> • according to IEC 81346-2 • according to IEC 81346-2:2019 | WG WGB |
| further information / internet links | |
| internet link | |
| <ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Selection guide for cables and connectors • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support | http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com |

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