

### 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 10 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

10 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

#### 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

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

|  |   |
|--|---|
| • of cable sheath  | green   |
| bending radius   |   |
| • with single bend / minimum permissible                                 | 31 mm   |
| • with multiple bends / minimum permissible                              | 43.5 mm   |
| weight per length  | 50 kg/km  |
| <b>ambient conditions</b>  |   |
| 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  |
| <b>product features, product functions, product components / general</b> |   |
| product feature  |   |
| • halogen-free   | Yes   |
| • silicon-free   | Yes   |
| <b>standards, specifications, approvals</b>                              |   |
| UL/ETL listing / 300 V Rating  | No  |
| UL/ETL style / 600 V Rating  | Yes; E130266 AWM STYLE 21279  |
| certificate of suitability   |   |
| • 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   |
| <b>further information / internet links</b>                              |   |
| internet link  |   |
| • to web page: selection aid TIA Selection Tool                          | <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>   |
| • to website: Industrial communication                                   | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                 |
| • to website: Industry Mall  | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                   |
| • to website: Information and Download Center                            | <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> |
| • to website: Selection guide for cables and connectors                  | <a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a>   |
| • to website: Image database   | <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>             |
| • to website: CAX-Download-Manager                                       | <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                 |
| • to website: Industry Online Support                                    | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>             |

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