

### 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 10 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

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 | 0.485 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                                                                                                                                |
| <b>plug</b>                                                              |                                                                                                                                         |
| connector type                                                           | RJ45                                                                                                                                    |
| type of plug interlock                                                   | latched                                                                                                                                 |
| design of plug-in connection                                             | RJ45-180                                                                                                                                |
| <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                                                                                                                                     |
| • 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                                                                                                                                  |
| <b>standards, specifications, approvals</b>                              |                                                                                                                                         |
| 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                                                                                                                                     |
| <b>further information / internet links</b>                              |                                                                                                                                         |
| internet link                                                            |                                                                                                                                         |
| • to website: Selection guide for cables and connectors                  | <a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> |
| • to web page: selection aid TIA Selection Tool                          | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>                                                         |
| • to web page: SiePortal                                                 | <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>                                                             |
| • to website: Image database                                             | <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>                                       |
| • to website: CAX-Download-Manager                                       | <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>                                                                   |
| • to website: Industry Online Support                                    | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>                                                 |
| <b>security information</b>                                              |                                                                                                                                         |

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Approvals / Certificates

General Product Approval



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[Declaration of Conformity](#)

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