

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 3 m



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|---------------------|---|
| 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 | 3 m |

Electrical data

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|---|--|
| Damping ratio per length | |
| <ul style="list-style-type: none"> • at 10 MHz / maximum • at 100 MHz / maximum • at 300 MHz / maximum • at 600 MHz / maximum | <p>0.086 dB/m</p> <p>0.28 dB/m</p> <p>0.501 dB/m</p> <p>0.735 dB/m</p> |
| Impedance | |
| <ul style="list-style-type: none"> • at 1 MHz ... 100 MHz • at 10 MHz ... 600 MHz | <p>100 Ω</p> <p>100 Ω</p> |
| Relative symmetrical tolerance | |
| <ul style="list-style-type: none"> • of the characteristic impedance at 1 MHz ... 100 MHz • of the characteristic impedance at 10 MHz ... 600 MHz | <p>15 %</p> <p>10 %</p> |

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|---|----------|
| Transfer impedance per length / at 10 MHz | 10 mΩ/m |
| Loop resistance per length / maximum | 290 mΩ/m |
| Operating voltage <ul style="list-style-type: none"> • RMS value | 80 V |
| NVP value in percent | 80 % |

Mechanical data

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| 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 <ul style="list-style-type: none"> • of AWG26 core | 0.5 mm |
| Outer diameter <ul style="list-style-type: none"> • of inner conductor • of the wire insulation • of cable sheath | 0.5 mm 1 mm 6.2 mm |
| Symmetrical tolerance of the outer diameter / of cable sheath | 0.3 mm |
| Material <ul style="list-style-type: none"> • of the wire insulation • of cable sheath | polyethylene (PE) 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

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|---|---|
| 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 |
| Burning behavior | flame resistant according to IEC 60332-1 |
| 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 |
| Protection class IP | IP20 |

Product features, product functions, product components / general

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|-----------------|--|
| Product feature | |
|-----------------|--|

- 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"> • UL approval | Yes |
| Standard for structured cabling | Cat6A |
| Marine classification association | |
| <ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (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 |

Further information / Internet-Links

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|--|---|
| Internet-Link | |
| <ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx Download Manager • to website: Industry Online Support | http://www.siemens.com/snst http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com |

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