SIEMENS

## Data sheet 6XV1870-3QN30

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|---|---|
| **product type designation** | **IE TP Cord RJ45/RJ45, 4x2** |
| product description | 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 30 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 | 30 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 |


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| ● 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 |
| **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 |
| ● silicon-free | 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 | |
| ● 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 web page: selection aid TIA Selection Tool | http://www.siemens.com/tia-selection-tool |
| ● to website: Industrial communication | http://www.siemens.com/simatic-net |
| ● to website: Industry Mall | https://mall.industry.siemens.com |
| ● to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| ● to website: Selection guide for cables and connectors | https://sie.ag/2QdlxcP |
| ● to website: Image database | http://automation.siemens.com/bilddb |
| ● to website: CAx-Download-Manager | http://www.siemens.com/cax |
| ● to website: Industry Online Support | https://support.industry.siemens.com |

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