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## Data sheet 6XV1850-2EE50

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|---|---|
| **product type designation** | **IE TP Converter Cord 15/RJ45** |
| product description | Patch cable, preferred length, preassembled with one 15-pole D-sub female connector (slide lock) and one RJ45 connector |
| | TP converter cord 15/RJ45 for Industrial Ethernet TP Cord, pre-assembled w. 1x 15-pole ITP socket and 1x RJ45 unit, for the transformation of an RJ45 terminal system to an ITP terminal system, with Mounting bracket; length 0.5 m. |
| suitability for use | Easy connection of terminal devices to the ITP cabling system |
| cable designation | LI 02YSCY 2x2x0,15/0,98 PIMF ICCS GN |
| wire length | 0.5 m |
| **electrical data** | |
| number of electrical connections | 2 |
| attenuation factor per length | |
| • at 10 MHz / maximum | 0.09 dB/m |
| • at 100 MHz / maximum | 0.285 dB/m |
| • at 300 MHz / maximum | 0.495 dB/m |
| • at 600 MHz / maximum | 0.75 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 | 6 % |
| transfer impedance per length / at 10 MHz | 10 mΩ/m |
| loop resistance per length / maximum | 300 mΩ/m |
| insulation resistance coefficient | 150 GΩ·m |
| operating voltage | |
| • RMS value | 80 V |
| **mechanical data** | |
| number of electrical cores | 4 |
| design of the shield | Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires |
| core diameter | |
| • of AWG26 insulated conductor | 0.48 mm |
| outer diameter | |
| • of inner conductor | 0.48 mm |
| • of the wire insulation | 0.98 mm |
| width / of cable sheath | 5.8 mm |
| symmetrical tolerance of width / of cable sheath | 0.2 mm |
| thickness / of cable sheath | 3.7 mm |
| symmetrical tolerance of thickness / of cable sheath | 0.2 mm |
| material | |
| • of the wire insulation | polyethylene (PE) |
| • of cable sheath | PVC |
| color | |
| • of the insulation of data wires | white/blue, white/orange |
| bending radius | |
| • with single bend / minimum permissible | 24 mm |
| • with multiple bends / minimum permissible | 42 mm |
| weight per length | 32 kg/km |
| **ambient conditions** | |
| ambient temperature | |
| • during operation | -40 ... +70 °C |
| • during storage | -40 ... +70 °C |
| • during transport | -40 ... +70 °C |


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| | |
|---|---|
| • during installation | -40 ... +70 °C |
| fire behavior | Flame-resistant according to DIN VDE 0472, Part 804 test type B, IEC 60332-1 |
| chemical resistance | |
| • to mineral oil | conditional resistance |
| • to grease | Conditional resistance |
| protection class IP | IP20 |
| **product features, product functions, product components / general** | |
| product feature | |
| • halogen-free | No |
| • silicon-free | Yes |
| **standards, specifications, approvals** | |
| UL/ETL listing / 300 V Rating | No |
| UL/ETL style / 600 V Rating | No |
| certificate of suitability | |
| • EAC approval | Yes |
| • CE marking | Yes |
| standard for structured cabling | Cat5e |
| 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 website: Selection guide for cables and connectors | https://support.industry.siemens.com/cs/ww/en/view/109766358 |
| • to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| • to website: Industrial communication | https://www.siemens.com/simatic-net |
| • to web page: SiePortal | https://sieportal.siemens.com/ |
| • to website: Image database | https://www.automation.siemens.com/bilddb |
| • to website: CAx-Download-Manager | https://www.siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |
| **security information** | |
| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7) |

## Approvals / Certificates

### General Product Approval




Declaration of Conformity







Manufacturer Declaration





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## Environment

Confirmation

**last modified:** 8/8/2024

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