

## Data sheet

6XV1850-2GN10

### Product type designation

Product description

### IE TP CORD RJ45/RJ45

Patch cable, preferred length, preassembled with two RJ45 connectors (10/100MB)

SIMATIC NET, IND. ETHERNET TP CORD RJ45/RJ45, TP CORD PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH: 10 M



|                     |                                                               |
|---------------------|---------------------------------------------------------------|
| Suitability for use | Easy connection of data terminals to the IE FC cabling system |
| Cable designation   | LI 02YSCY 2x2x0,15/0,98 PIMF ICCS GN                          |
| Wire length         | 10 m                                                          |

### Electrical data

|                                                         |              |
|---------------------------------------------------------|--------------|
| Damping ratio 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 $\Omega$ |
| • at 10 MHz ... 600 MHz                                 | 100 $\Omega$ |
| 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 |

#### 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 <ul style="list-style-type: none"> <li>• of AWG26 core</li> </ul>                                                                                | 0.48 mm                                                                                |
| Outer diameter <ul style="list-style-type: none"> <li>• of inner conductor</li> <li>• of the wire insulation</li> </ul>                                        | 0.48 mm<br>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 <ul style="list-style-type: none"> <li>• of the wire insulation</li> <li>• of cable sheath</li> </ul>                                                 | PE<br>PVC                                                                              |
| Color <ul style="list-style-type: none"> <li>• of the insulation of data wires</li> <li>• of cable sheath</li> </ul>                                           | white/blue, white/orange<br>green                                                      |
| Bending radius <ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul> | 24 mm<br>42 mm                                                                         |
| Weight per length                                                                                                                                              | 32 kg/km                                                                               |

#### Permitted ambient conditions

|                                                                                                                                                                               |                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Ambient temperature <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> <li>• during installation</li> </ul> | -40 ... +70 °C<br>-40 ... +70 °C<br>-40 ... +70 °C<br>-40 ... +70 °C            |
| Burning behavior                                                                                                                                                              | flame resistant according to IEC 60332-2-1                                      |
| Chemical resistance <ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to grease</li> </ul>                                                                   | oil resistant according to IEC 60811-2-1 (4 h / 70°C)<br>Conditional resistance |
| Protection class IP                                                                                                                                                           | IP20                                                                            |

#### Product properties, functions, components / general

|                                                                                                          |           |
|----------------------------------------------------------------------------------------------------------|-----------|
| Product feature <ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul> | No<br>Yes |
|----------------------------------------------------------------------------------------------------------|-----------|

## Standards, specifications, approvals

|                                                 |      |
|-------------------------------------------------|------|
| UL/ETL listing / 300 V Rating                   | No   |
| UL/ETL style / 600 V Rating                     | No   |
| Certificate of suitability                      |      |
| • UL approval                                   | Yes  |
| Standard for structured cabling                 | Cat7 |
| Marine classification association               |      |
| • American Bureau of Shipping Europe Ltd. (ABS) | No   |
| • Bureau Veritas (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   |

## Further Information / Internet Links

|                                                   |                                                                                                     |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Internet-Link                                     |                                                                                                     |
| • to website: Selector SIMATIC NET SELECTION TOOL | <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</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: 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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