

## Data sheet

6XV1850-2HE50

### Product type designation

Product description

### IE TP XP CORD RJ45/RJ45

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

Industrial Ethernet TP XP Cord RJ45/RJ45, TP cord Pre-assembled with 2 RJ45 connector, Send and receive line crossed, Length 0.5 m



|                     |                                                                 |
|---------------------|-----------------------------------------------------------------|
| Suitability for use | Easy connection of terminal devices to the IE FC cabling system |
| Cable designation   | LI 02YSCY 2x2x0,15/0,98 PIMF ICCS GN                            |
| Wire length         | 0.5 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 |
| 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 core                                      | 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                                                               |
| • of cable sheath                                    | green                                                                                  |
| 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                                        |
| • during installation | -40 ... +70 °C                                        |
| Burning behavior      | flame resistant according to IEC 60332-2-1            |
| Chemical resistance   |                                                       |
| • to mineral oil      | oil resistant according to IEC 60811-2-1 (4 h / 70°C) |
| • to grease           | Conditional resistance                                |
| Protection class IP   | IP20                                                  |

#### Product features, product functions, product components / general

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

- halogen-free
- silicon-free

No  
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                 | Cat5 |
| 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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