

### Product type designation

Product description

### IE TP Cord RJ45/15, 2x2

Patch cable, preferred length, preassembled with one 15-pole D-sub connector and one RJ45 connector

SIMATIC NET, IND. ETHERNET TP CORD 15/RJ45, TP CORD PREASSEMBLED WITH 1 RJ45 CONNECTOR AND 1 15-PIN ITP CONNECTOR, 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                          |
| Cable length        | 10 m  |

### Electrical data

|   |   |
|---|---|
| Damping ratio per length  |   |
| <ul style="list-style-type: none"> <li>• at 10 MHz / maximum</li> <li>• at 100 MHz / maximum</li> <li>• at 300 MHz / maximum</li> <li>• at 600 MHz / maximum</li> </ul>   | <p>0.09 dB/m</p> <p>0.285 dB/m</p> <p>0.495 dB/m</p> <p>0.75 dB/m</p> |
| Impedance   |   |
| <ul style="list-style-type: none"> <li>• at 1 MHz ... 100 MHz</li> <li>• at 10 MHz ... 600 MHz</li> </ul>   | <p>100 Ω</p> <p>100 Ω</p>   |
| Relative symmetrical tolerance  |   |
| <ul style="list-style-type: none"> <li>• of the characteristic impedance at 1 MHz ... 100 MHz</li> <li>• of the characteristic impedance at 10 MHz ... 600 MHz</li> </ul> | <p>15 %</p> <p>6 %</p>  |
| 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   | 0.48 m   |
| <ul style="list-style-type: none"> <li>• of AWG26 core</li> </ul>   |  |
| 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 60332-1  |
| 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 property   |           |
| <ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul> | No<br>Yes |

#### Standards, specifications, approvals

|   |      |
|---|------|
| Certificate of suitability                                      |      |
| <ul style="list-style-type: none"> <li>• UL approval</li> </ul> | Yes  |
| Standard for structured cabling                                 | Cat7 |
| Marine classification association                               |      |

- 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

### Internet-Link

- 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/automation/net/catalog>  
<http://automation.siemens.com/bilddb>  
<http://www.siemens.com/cax>  
<https://support.industry.siemens.com>

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