



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

Acceptability for application

Easy connection of data terminals to the IE FC cabling system

Cable length

2 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

|  |       |
|--|-------|
| • for frequency range 1 MHz ... 100 MHz  | 100 Ω |
| • for frequency range 10 MHz ... 600 MHz | 100 Ω |

Relative symmetrical tolerance

|  |      |
|--|------|
| • of the surge impedance at 1 MHz ... 100 MHz  | 15 % |
| • of the surge impedance at 10 MHz ... 600 MHz | 6 %  |

Transfer impedance / at 10 MHz

10 mΩ/m

Loop resistance per length / maximum

300 Ω/km

Insulation resistance coefficient

150 GΩ·m

### Mechanical data

Number of electrical wires

4

Design of shield

Overlapped aluminum-clad foil, sheathed in a braided screen of tinned copper wires

|  |   |
|--|---|
| Core diameter  |   |
| • of AWG26 core  | 0.48 mm   |
| Outer diameter   |   |
| • of the inner conductor                                   | 0.48 mm   |
| • of the wire insulation                                   | 0.98 mm   |
| Width / of the cable sheath                                | 5.8 mm  |
| Symmetrical tolerance of width / of cable sheath           | 0.2 mm  |
| Thickness / of the cable sheath                            | 3.7 mm  |
| Symmetrical tolerance of thickness / of cable sheath       | 0.2 mm  |
| Material   |   |
| • of the wire insulation                                   | PE  |
| • of the cable sheath                                      | PVC   |
| Color  |   |
| • of the insulation of data wires                          | white/blue, white/orange                              |
| • of the 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  |
| <b>Permitted ambient conditions</b>                        |   |
| Ambient temperature  |   |
| • during operating   | -40 ... +70 °C  |
| • during storage   | -40 ... +70 °C  |
| • during transport   | -40 ... +70 °C  |
| • during installation                                      | -40 ... +70 °C  |
| Protection class IP  | IP20  |
| Burning behaviour  | 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                                |
| <b>Product properties, functions, components / general</b> |   |
| Product feature  |   |
| • halogen-free   | No  |
| • silicon-free   | Yes   |
| <b>Standards, specifications, approvals</b>                |   |
| UL/ETL listing / with 300 V rating                         | No  |
| UL/ETL style / with 600 V rating                           | No  |
| Verification of suitability                                |   |
| • UL-registration  | Yes   |

Standard for structured cabling

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)

**letzte Änderung:**

Cat7

No

No

No

No

No

No

No

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