



SIMATIC NET,  
IND. ETHERNET TP XP CORD 15/RJ45,  
TP CORD PREASS. W. 1 X 15-PIN ITP CONN.,  
CROSSED TRANSMISSION AND RECEPTION CABLE  
LENGTH 0.5 M

Acceptability for application

Easy connection of data terminals to the IE FC cabling system

Cable 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

|                                          |              |
|------------------------------------------|--------------|
| • for frequency range 1 MHz ... 100 MHz  | 100 $\Omega$ |
| • for frequency range 10 MHz ... 600 MHz | 100 $\Omega$ |

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 m $\Omega$ /m

Loop resistance per length / maximum

300  $\Omega$ /km

Insulation resistance coefficient

150 G $\Omega$ ·m

### Mechanical data

Number of electrical wires

4

Design of 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 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 DIN VDE 0472, Teil 804, Prüfstufe B |
| 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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