

SIMATIC NET, ITP STANDARD CABLE 9/15 FOR INDUSTRIAL ETHERNET ITP STANDARD CABLE, PREASSEMBLED WITH 1X 9-PIN AND 1 X 15-PIN ITP CONNECTOR, FOR CONNECTING TERMINALS W. ITP INTERF. TO ACT. ITP NETWORK COMPONENTS, LENGTH: 50 M



Acceptability for application

Used in the construction of Industrial Twisted Pair (ITP) networks

Cable length

50 m

### Electrical data

Damping ratio per length

- at 10 MHz / maximum 0.057 dB/m
- at 100 MHz / maximum 0.18 dB/m
- at 300 MHz / maximum 0.31 dB/m

Impedance

- for frequency range 1 MHz ... 100 MHz 100 Ω
- for frequency range 100 MHz ... 300 MHz 100 Ω

Relative symmetrical tolerance

- of the surge impedance at 1 MHz ... 100 MHz 15 %
- of surge impedance at 100 MHz ... 300 MHz 45 %

Transfer impedance / at 10 MHz

2 mΩ/m

Loop resistance per length / maximum

124 Ω/km

Insulation resistance coefficient

5000 GΩ·m

Operating voltage

- RMS value 165 V
- Maximum 225 V

### Mechanical data

Number of electrical wires

4

Design of shield	Overlapped aluminum-clad foil (for each core), sheathed in an overall braided shield of tin-plated copper wires
Core diameter	
• of the AWG22 core	0.64 mm
Outer diameter	
• of the inner conductor	0.64 mm
• of the wire insulation	1.5 mm
Width / of the cable sheath	9.2 mm
Symmetrical tolerance of width / of cable sheath	0.5 mm
Thickness / of the cable sheath	6 mm
Symmetrical tolerance of thickness / of cable sheath	0.5 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	30 mm
• with multiple bends / minimum permissible	45 mm
Traction stress / maximum	80 N
Weight per length	96 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 60332-1
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

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

**letzte Änderung:**

Aug 6, 2014