

SIMATIC NET,
ITP XP STANDARD CABLE 9/9 FOR INDUSTR.
ETHERNET ITP STANDARD CABLE, PREASSEMBLED
WITH 2 X 9-PIN ITP CONNECTORS,
FOR CASCADING OF ACTIVE ITP NETWORK
COMPONENTS,
LENGTH: 90 M



Acceptability for application

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

Cable length

90 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 m Ω /m

Loop resistance per length / maximum

124 Ω /km

Insulation resistance coefficient

5000 G Ω ·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
Permitted ambient conditions	
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
Product properties, functions, components / general	
Product feature	
• halogen-free	No
• silicon-free	Yes
Standards, specifications, approvals	
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