



SIMATIC NET,
IND. ETHERNET TP XP CORD 9/RJ45,
TP CORD PREASS. WITH 1 RJ45 CONNECTOR A. 1 9-
PIN ITP CONN. CROSSED TRANSMISSION AND
RECEPTION CABLE LENGTH 1 M

Acceptability for application

Easy connection of data terminals to the IE FC cabling system

Cable length

1 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 m Ω /m

Loop resistance per length / maximum

300 Ω /km

Insulation resistance coefficient

150 G Ω ·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
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 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
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
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

Aug 4, 2014