

Acceptability for application	SIMATIC NET, IND. ETHERNET TP XP CORD 9-45/RJ45, TP CORD PREASS. WITH 1 X RJ45 CONNECTOR A. 1X9- PIN ITP CONN. 45 DEGR. CABLE OUTLET, L = 1 M, CROSSED TRANSMISSION AND RECEPTION CABLE
Cable length	Easy connection of data terminals to the IE FC cabling system 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 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 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, Prüftart 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	Cat7
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Germanische Lloyd (GL)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	No
• Polski Rejestr Statkow (PRS)	No
letzte Änderung:	Aug 6, 2014