



SIMATIC NET INDUSTRIAL ETHERNET TP CORD
RJ45/RJ45,
CAT 6, TP CABLE 4X2,
PREASSEMBLED W. W. 2 RJ45 CONNECTORS,
L = 1 M

Cable length

1 m

[nicht versorgt: TAK_ABR691_001_000]

Damping ratio per length

• at 10 MHz / maximum	0.086 dB/m
• at 100 MHz / maximum	0.28 dB/m
• at 300 MHz / maximum	0.501 dB/m
• at 600 MHz / maximum	0.735 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	10 %

Transfer impedance / at 10 MHz

10 mΩ/m

Loop resistance per length / maximum

290 Ω/km

Insulation resistance coefficient

500 GΩ·m

Mechanical data

Number of electrical wires

8

Core diameter

• of AWG26 core	0.5 mm
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Outer diameter

• of the inner conductor	0.5 mm
• of the wire insulation	1 mm
• of the cable sheath	6.2 mm
Symmetrical tolerance of outer diameter / of cable sheath	0.3 mm
Bending radius	
• with single bend / minimum permissible	31 mm
• with multiple bends / minimum permissible	43.5 mm
Weight per length	50 kg/km
Permitted ambient conditions	
Ambient temperature	
• during operating	-25 ... +70 °C
• during storage	-25 ... +70 °C
• during transport	-25 ... +70 °C
• during installation	-25 ... +70 °C
Protection class IP	IP20
Product properties, functions, components / general	
Product feature	
• halogen-free	Yes
• [not supplied - silicon-free]	Yes
Standards, specifications, approvals	
Verification of suitability	
• UL-registration	Yes
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
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