

Product-type designation	ITP XP Standard Cable 9/9
	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: 12 M
	
Acceptability for application	Used in the construction of Industrial Twisted Pair (ITP) networks
Cable designation	J-02YSCY 2x2x0,64/1,5 PIMF F GN
Cable length	12 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 per length / 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
[nicht versorgt: PMD_ACA608_001_000]	
• 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
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
Protection class IP	IP20

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)	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
Further Information / Internet Links	
Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Information and Download Center	http://www.siemens.com/automation/net/catalog
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	http://support.automation.siemens.com
letzte Änderung:	Sep 12, 2014