

Product type designation

Product description

ITP Standard Cable 9/15

Industrial Twisted Pair cable (4-core), preferred length, preassembled with one 9-pole and one 15-pole D-sub connector
ITP Standard Cable 9/15 for Industrial Ethernet ITP Standard cable, pre-assembled with 1x 9-pole and 1x 15-pole ITP connector, for connection of an ITP terminal device to an active ITP network component, Length 5 m



Suitability for use	Used in the construction of Industrial Twisted Pair (ITP) networks
Cable designation	J-02YSCY 2x2x0,64/1,5 PIMF F GN
Wire length	5 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	
• at 1 MHz ... 100 MHz	100 Ω
• at 100 MHz ... 300 MHz	100 Ω
Relative symmetrical tolerance	
• of the characteristic impedance at 1 MHz ... 100 MHz	15 %
• of the characteristic impedance at 100 MHz ... 300 MHz	45 %
Transfer impedance per length / at 10 MHz	2 mΩ/m

Loop resistance per length / maximum	124 mΩ/m
Insulation resistance coefficient	5000 GΩ·m
Operating voltage	
• RMS value	165 V
• maximum	225 V

Mechanical data

Number of electrical cores	4
Design of the shield	Overlapped aluminum-clad foil (for each core), sheathed in an overall braided shield of tin-plated copper wires
Core diameter	
• of AWG22 core	0.64 mm
Outer diameter	
• of inner conductor	0.64 mm
• of the wire insulation	1.5 mm
Width / of cable sheath	9.2 mm
Symmetrical tolerance of width / of cable sheath	0.5 mm
Thickness / of cable sheath	6 mm
Symmetrical tolerance of thickness / of cable sheath	0.5 mm
Material	
• of the wire insulation	polyethylene (PE)
• of cable sheath	PVC
Color	
• of the insulation of data wires	white/blue, white/orange
• of cable sheath	green
Bending radius	
• with single bend / minimum permissible	30 mm
• with multiple bends / minimum permissible	45 mm
Tensile load / maximum	80 N
Weight per length	96 kg/km

Ambient conditions

Ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• during installation	-40 ... +70 °C
Burning behavior	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 features, product functions, product components / general

Product feature	
• halogen-free	No
• silicon-free	Yes

Standards, specifications, approvals

UL/ETL listing / 300 V Rating	No
UL/ETL style / 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: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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