

Product type designation

Product description

ITP Standard Cable GP for Industrial Ethernet

Industrial twisted pair cable (4-core), sold by the meter, unassembled SIMATIC NET, ITP STANDARD CABLE FOR INDUSTRIAL ETHERNET J-02YSCY 2X2X0.64/1.5 PIMF F, 2 X 2-CORE INSTALLATION CABLE F. "ON-SITE" INSTALLATION NOT PREASSEM., SOLD BY THE METER MIN. ORDERING LENGTH: 20 M MAX. CONSIGNMENT: 1000 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

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	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

Permitted 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

Product properties, functions, 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
Certificate of suitability	
<ul style="list-style-type: none"> • CE marking 	Yes
Marine classification association	
<ul style="list-style-type: none"> • 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) 	No

Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx Download Manager • to website: Industry Online Support 	<p>http://www.siemens.com/snst</p> <p>http://www.siemens.com/simatic-net</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>

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