

### product type designation

### product description

### ITP Standard Cable GP for Industrial Ethernet

Industrial twisted pair cable (4-core), sold by the meter, unassembled

ITP Standard Cable for Industrial Ethernet J-02YSCY 2x2X0.64/1.5 PIMF F, installation cable 2x2-core for on-site assembly of connector, non-assembled, Sold by the meter Minimum order quantity: 20 m delivery unit: max. 1000 m.



### Technical Product Detail Page

<https://l.siemens.com/1P6XV1850-0AH10>

### 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

sold by the meter

### electrical data

#### attenuation factor 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 insulated conductor	0.64 mm
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#### 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	
<ul style="list-style-type: none"> <li>• of the insulation of data wires</li> <li>• of cable sheath</li> </ul>	white/blue, white/orange green
bending radius	
<ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul>	30 mm 45 mm
tensile load / maximum	80 N
weight per length	96 kg/km
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> <li>• during installation</li> </ul>	-40 ... +70 °C -40 ... +70 °C -40 ... +70 °C -40 ... +70 °C
fire behavior	flame resistant according to IEC 60332-1
chemical resistance	
<ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to grease</li> </ul>	oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance
<b>product features, product functions, product components / general</b>	
product feature	
<ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>	No Yes
<b>standards, specifications, approvals</b>	
UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
certificate of suitability	
<ul style="list-style-type: none"> <li>• EAC approval</li> <li>• CE marking</li> </ul>	Yes Yes
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> <li>• French marine classification society (BV)</li> <li>• Det Norske Veritas (DNV)</li> <li>• Germanische Lloyd (GL)</li> <li>• Lloyds Register of Shipping (LRS)</li> <li>• Nippon Kaiji Kyokai (NK)</li> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	No No No No No No No
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to web page: SiePortal</li> <li>• to website: Image database</li> <li>• to website: CAX-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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## Approvals / Certificates

### General Product Approval



[Declaration of Con-  
formity](#)



[Manufacturer Declara-  
tion](#)

[China RoHS](#)

### General Product Approval



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