

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.



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

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

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	
<ul style="list-style-type: none"> with single bend / minimum permissible with multiple bends / minimum permissible 	<p>30 mm</p> <p>45 mm</p>
tensile load / maximum	80 N
weight per length	96 kg/km
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation during storage during transport during installation 	<p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p>
fire behavior	flame resistant according to IEC 60332-1
chemical resistance	
<ul style="list-style-type: none"> to mineral oil to grease 	<p>oil resistant according to IEC 60811-2-1 (4 h / 70°C)</p> <p>Conditional resistance</p>
product features, product functions, product components / general	
product feature	
<ul style="list-style-type: none"> halogen-free silicon-free 	<p>No</p> <p>Yes</p>
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"> EAC approval CE marking 	<p>Yes</p> <p>Yes</p>
Marine classification association	
<ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Det Norske Veritas (DNV) Germanische Lloyd (GL) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) 	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
reference code	
<ul style="list-style-type: none"> according to IEC 81346-2 according to IEC 81346-2:2019 	<p>WG</p> <p>WGB</p>
further information / internet links	
internet link	
<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Selection guide for cables and connectors to website: Image database to website: CAx-Download-Manager to website: Industry Online Support 	<p>http://www.siemens.com/tia-selection-tool</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>https://sie.ag/2QdlxcP</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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