

Data sheet

6XV1850-0AH10

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://i.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

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	white/blue, white/orange green
• of the insulation of data wires • of cable sheath	
bending radius	
• with single bend / minimum permissible • with multiple bends / minimum permissible	30 mm 45 mm
tensile load / maximum	80 N
weight per length	96 kg/km
ambient conditions	
ambient temperature	
• during operation • during storage • during transport • during installation	-40 ... +70 °C -40 ... +70 °C -40 ... +70 °C -40 ... +70 °C
fire behavior	flame resistant according to IEC 60332-1
chemical resistance	
• to mineral oil • to grease	oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance
product features, product functions, product components / general	
product feature	
• halogen-free • silicon-free	No Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
certificate of suitability	
• EAC approval • CE marking	Yes Yes
Marine classification association	
• 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 Statków (PRS)	No No No No No No No
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to web page: SiePortal • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
security information	
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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



[Manufacturer Declaration](#)

[China RoHS](#)

General Product Approval



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