

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



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 m Ω /m

Loop resistance per length / maximum

124 m Ω /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

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
Certificate of suitability	
• CE marking	Yes
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

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

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