

Data sheet

6XV1850-0AH10

product type designation	ITP Standard Cable GP for Industrial Ethernet
product description	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	
• 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
fire 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	
• EAC approval	Yes
• CE marking	Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• French marine classification society (BV)	No
• Det Norske Veritas (DNV)	No
• Germanische Lloyd (GL)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	No
• Polski Rejestr Statków (PRS)	No
reference code	
• according to IEC 81346-2	WG
• according to IEC 81346-2:2019	WGB
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
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