

Data sheet

6XV1850-2NH10

product type designation	IE TP Cord 9-45/RJ45, 2x2
product description	Patch cable, preferred length, preassembled with one 9-pole D-sub connector (45 degree cable outlet) and one RJ45 connector Industrial Ethernet TP Cord 9-45/RJ45, TP cord pre-assembled with 1x RJ45 Connector and 1x 9-pole ITP connector cable outlet 45 degrees, length 1 m.
suitability for use	Easy connection of terminal devices to the IE FC cabling system
cable designation	LI 02YSCY 2x2x0,15/0,98 PIMF ICCS GN
wire length	1 m
electrical data	
number of electrical connections	2
attenuation factor per length <ul style="list-style-type: none"> at 10 MHz / maximum at 100 MHz / maximum at 300 MHz / maximum at 600 MHz / maximum 	0.09 dB/m 0.285 dB/m 0.495 dB/m 0.75 dB/m
impedance <ul style="list-style-type: none"> at 1 MHz ... 100 MHz at 10 MHz ... 600 MHz 	100 Ω 100 Ω
relative symmetrical tolerance <ul style="list-style-type: none"> of the characteristic impedance at 1 MHz ... 100 MHz of the characteristic impedance at 10 MHz ... 600 MHz 	15 % 6 %
transfer impedance per length / at 10 MHz	10 mΩ/m
loop resistance per length / maximum	300 mΩ/m
insulation resistance coefficient	150 GΩ·m
operating voltage <ul style="list-style-type: none"> RMS value 	80 V
mechanical data	
number of electrical cores	4
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
core diameter <ul style="list-style-type: none"> of AWG26 insulated conductor 	0.48 mm
outer diameter <ul style="list-style-type: none"> of inner conductor of the wire insulation 	0.48 mm 0.98 mm
width / of cable sheath	5.8 mm
symmetrical tolerance of width / of cable sheath	0.2 mm
thickness / of cable sheath	3.7 mm
symmetrical tolerance of thickness / of cable sheath	0.2 mm
material <ul style="list-style-type: none"> of the wire insulation of cable sheath 	polyethylene (PE) PVC
color <ul style="list-style-type: none"> of the insulation of data wires of cable sheath 	white/blue, white/orange green
bending radius <ul style="list-style-type: none"> with single bend / minimum permissible with multiple bends / minimum permissible 	24 mm 42 mm
weight per length	32 kg/km
ambient conditions	
ambient temperature <ul style="list-style-type: none"> during operation during storage 	-40 ... +70 °C -40 ... +70 °C

<ul style="list-style-type: none"> • during transport • during installation 	-40 ... +70 °C
fire behavior	flame resistant according to IEC 60332-1
chemical resistance <ul style="list-style-type: none"> • to mineral oil • to grease 	oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance
protection class IP	IP20
product features, product functions, product components / general	
product feature <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • EAC approval • UL approval 	Yes Yes
standard for structured cabling	Cat5
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) 	No No No No No No No
reference code <ul style="list-style-type: none"> • according to IEC 81346-2 • according to IEC 81346-2:2019 	WG WGB
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 	http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

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