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Data sheet 6XV1850-2EH20

product type designation	**IE TP Converter Cord 15/RJ45**
product description	Patch cable, preferred length, preassembled with one 15-pole D-sub female connector (slide lock) and one RJ45 connector
	TP converter cord 15/RJ45 for Industrial Ethernet TP Cord, pre-assembled w. 1x 15-pole ITP socket and 1x RJ45 unit, for the transformation of an RJ45 terminal system to an ITP terminal system, with Mounting bracket, length 2 m.
suitability for use	Easy connection of terminal devices to the ITP 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	
● at 10 MHz / maximum	0.09 dB/m
● at 100 MHz / maximum	0.285 dB/m
● at 300 MHz / maximum	0.495 dB/m
● at 600 MHz / maximum	0.75 dB/m
impedance	
● at 1 MHz ... 100 MHz	100 Ω
● at 10 MHz … 600 MHz	100 Ω
relative symmetrical tolerance	
● of the characteristic impedance at 1 MHz … 100 MHz	15 %
● of the characteristic impedance at 10 MHz … 600 MHz	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	
● 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	
● of AWG26 insulated conductor	0.48 mm
outer diameter	
● of inner conductor	0.48 mm
● of the wire insulation	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	
● of the wire insulation	polyethylene (PE)
● of cable sheath	PVC
color	
● of the insulation of data wires	white/blue, white/orange
bending radius	
● with single bend / minimum permissible	24 mm
● with multiple bends / minimum permissible	42 mm
weight per length	32 kg/km
ambient conditions	
ambient temperature	
● during operation	-40 ... +70 °C
● during storage	-40 ... +70 °C
● during transport	-40 ... +70 °C

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• during installation	-40 ... +70 °C
fire behavior	flame resistant according to DIN VDE 0472, part 804, test type B
chemical resistance	
• to mineral oil	conditional resistance
• to grease	Conditional resistance
protection class IP	IP20
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
standard for structured cabling	Cat5e
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 Statkow (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 website: Industrial communication	https://www.siemens.com/simatic-net
• 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	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

CE EG-Konf. | UKCA | Declaration of Conformity | CCC | Manufacturer Declaration | RCM

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Environment

Confirmation

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