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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

Damping ratio 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 core	0.48 m
Outer diameter	
• of inner conductor	0.48 mm
• of the wire insulation	0.98 mm
Width / of cable sheath	5.8 mm

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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
• during installation	-40 ... +70 °C
Burning 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
Standard for structured cabling	Cat5
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

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Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
last modified:	07/22/2020

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