

Data sheet

6XV1850-2GH20

Product type designation	IE TP CORD RJ45/RJ45
Product description	Patch cable, preferred length, preassembled with two RJ45 connectors (10/100MB) SIMATIC NET, IND. ETHERNET TP CORD RJ45/RJ45, TP CORD PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 2 M



Suitability for use	Easy connection of data terminals to the IE FC cabling system
Cable designation	LI 02YSCY 2x2x0,15/0,98 PIMF ICCS GN
Wire length	2 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

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 mm
Outer diameter • 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 • of the wire insulation • of cable sheath	PE PVC
Color • of the insulation of data wires • of cable sheath	white/blue, white/orange green
Bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible	24 mm 42 mm
Weight per length	32 kg/km

Permitted ambient conditions

Ambient temperature • during operation • during storage • during transport • during installation	-40 ... +70 °C -40 ... +70 °C -40 ... +70 °C -40 ... +70 °C
Burning behavior	flame resistant according to IEC 60332-2-1
Chemical resistance • to mineral oil • to grease	oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance
Protection class IP	IP20

Product properties, functions, components / general

Product feature • halogen-free • silicon-free	No Yes
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Standards, specifications, approvals

UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
Certificate of suitability	
• UL approval	Yes
Standard for structured cabling	Cat7
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	
• 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

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