

Data sheet

6XV1850-2MH20

Product type designation	IE TP XP Cord 9/RJ45, 2x2
Product description	Crossover patch cable, preferred length, preassembled with one 9-pole D-sub connector and one RJ45 connector Industrial Ethernet TP XP Cord 9/RJ45, TP cord pre-assembled with 1x RJ45 connector and 1x 9-pole ITP connector send and receive line crossed, Length 2 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	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
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 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 • of cable sheath	polyethylene (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

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 DIN VDE 0472, part 804, test type B
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 features, product functions, product 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	Cat5
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK)	No No No No No 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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