

Data sheet

6XV1870-3QH40

Product type designation	IE TP Cord RJ45/RJ45, 4x2
Product description	Patch cable, preferred length, preassembled with two RJ45 connectors (10/100/1000/10000MB) SIMATIC NET, IND. ETHERNET TP CORD RJ45/RJ45, CAT 6A, TP CABLE 4X2, PREASSEMBLED W/ 2 RJ45 CONNECTORS,LENGTH 4M
Suitability for use	Easy connection of data terminals to the IE FC cabling system
Cable designation	LI 02YSCH 4x2x0,15 PIMF GN FRNC
Wire length	4 m

Electrical data

Damping ratio per length	
• at 10 MHz / maximum	0.086 dB/m
• at 100 MHz / maximum	0.28 dB/m
• at 300 MHz / maximum	0.501 dB/m
• at 600 MHz / maximum	0.735 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	10 %
Transfer impedance per length / at 10 MHz	10 m Ω /m
Loop resistance per length / maximum	290 m Ω /m
NVP value in percent	80 %

Mechanical data

Number of electrical cores	8
Design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
Core diameter	
• of AWG26 core	0.5 mm
Outer diameter	
• of inner conductor	0.5 mm
• of the wire insulation	1 mm
• of cable sheath	6.2 mm
Symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm
Material	

• of the wire insulation • of cable sheath	PE FRNC
Color • of the insulation of data wires • of cable sheath	white/blue, white/orange, white/green, white/brown green
Bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible	31 mm 43.5 mm
Weight per length	50 kg/km

Permitted ambient conditions

Ambient temperature • during operation • during storage • during transport • during installation • Note	-25 ... +80 °C -25 ... +80 °C -25 ... +80 °C -25 ... +80 °C In fixed installation -40 °C to 80 °C
Burning behavior	flame resistant according to IEC 60332-1
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	Yes 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	Cat6A
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) • Polski Rejestr Statkow (PRS)	No 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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