

Data sheet

6XV1870-3QN20

Product type designation

Product description

IE TP Cord RJ45/RJ45, 4x2

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

20M



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	20 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 mΩ/m
Loop resistance per length / maximum	290 mΩ/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 • of the wire insulation • of cable sheath	0.5 mm 1 mm 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)	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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