

Data sheet

6XV1870-3QH60

product type designation

product description

IE TP Cord RJ45/RJ45, 4x2

Patch cable, preferred length, preassembled with two RJ45 connectors (10/100/1000/10000MB)

Industrial Ethernet TP Cord RJ45/RJ45, CAT 6A, TP cable 4x2, pre-assembled with 2 RJ45 connectors, length 6 m.



Technical Product Detail Page

<https://i.siemens.com/1P6XV1870-3QH60>

suitability for use

Easy connection of terminal devices to the IE FC cabling system

cable designation

S/FTP, LI 02YSCH 4x2x0,15 PIMF GN FRNC

wire length

6 m

electrical data

number of electrical connections

2

attenuation factor 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 %

coupling loss / at 30 MHz ... 100 MHz / minimum

70 dB

transfer impedance per length / at 10 MHz

10 mΩ/m

loop resistance per length / maximum

290 mΩ/m

operating voltage

- RMS value 80 V

NVP value in percent

80 %

mechanical data

number of electrical cores

8

design of the shield

S/FTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires

core diameter

- of AWG26 insulated conductor 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 polyethylene (PE)
- of cable sheath 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	
plug		
connector type	RJ45	
type of plug interlock	latched	
design of plug-in connection	RJ45-180	
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
class of burning behaviour / according to EN 13501-6	Eca	
chemical resistance	• to mineral oil • to grease	oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance
radiological resistance / to UV radiation	not resistant	
protection class IP	IP20	
product features, product functions, product components / general		
product feature	• halogen-free • PoE capability • PoE+ capability • PoE++ capability • silicon-free	Yes Yes Yes Yes Yes
test voltage	• at AC / core-to-core • at AC / core shield	500 V 1500 V
standards, specifications, approvals		
UL/ETL listing / 300 V Rating	No	
UL/ETL style / 600 V Rating	Yes	
certificate of suitability	ISO/IEC 11801-1, IEC 61035	
• EAC approval • UL approval • RoHS conformity	Yes Yes Yes	
standard for structured cabling	Cat6A	
Marine classification association	• American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statków (PRS)	
further information / internet links		
internet link	<ul style="list-style-type: none"> to website: Selection guide for cables and connectors to web page: selection aid TIA Selection Tool to web page: SiePortal to website: Image database to website: CAx-Download-Manager to website: Industry Online Support 	
	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com	

security information

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General Product Approval

Functional Safety

Test Certificates

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[Fire safety / Physical security](#)

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