## **SIEMENS**

Data sheet 6XV1870-3QH10

## 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, preassembled with 2 RJ45 connectors, length 1m

suitability for use	Easy connection of terminal devices to the IE FC cabling system
cable designation	LI 02YSCH 4x2x0,15 PIMF GN FRNC
wire length	1 m
electrical data	
attenuation factor per length	
• at 10 MHz / maximum	0.086 dB/m
<ul><li>at 100 MHz / maximum</li></ul>	0.28 dB/m
<ul><li>at 300 MHz / maximum</li></ul>	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	
<ul> <li>of the characteristic impedance at 1 MHz 100 MHz</li> </ul>	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
insulation resistance coefficient	500 GΩ·m
operating voltage	
RMS value	80 V
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	
<ul> <li>of AWG26 insulated conductor</li> </ul>	0.5 mm
outer diameter	
<ul> <li>of inner conductor</li> </ul>	0.5 mm
<ul> <li>of the wire insulation</li> </ul>	1 mm
of cable sheath	6.2 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm
material	

af the using insulation	nelvethylene /DE\
• of the wire insulation	polyethylene (PE)
of cable sheath	FRNC
color	
of the insulation of data wires	white/blue, white/orange, white/green, white/brown
• of cable sheath	green
bending radius	
with single bend / minimum permissible	31 mm
with multiple bends / minimum permissible	43.5 mm
weight per length	50 kg/km
ambient conditions	
ambient temperature	
<ul><li>during operation</li></ul>	-25 +80 °C
<ul><li>during storage</li></ul>	-25 +80 °C
<ul> <li>during transport</li> </ul>	-25 +80 °C
during installation	-25 +80 °C
• note	In fixed installation -40 °C to 80 °C
chemical resistance	
to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
• to grease	Conditional resistance
protection class IP	IP20
product features, product functions, product components	/ general
product feature	
<ul><li>halogen-free</li></ul>	Yes
• silicon-free	Yes
standards, specifications, approvals	
standards, specifications, approvals UL/ETL listing / 300 V Rating	No
	No Yes; E130266 AWM STYLE 21279
UL/ETL listing / 300 V Rating	
UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating	
UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating certificate of suitability	Yes; E130266 AWM STYLE 21279
UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating certificate of suitability  • EAC approval	Yes; E130266 AWM STYLE 21279 Yes
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UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  certificate of suitability  • EAC approval  • UL approval  standard for structured cabling  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)	Yes; E130266 AWM STYLE 21279  Yes Yes Cat6A  No No No No
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UL/ETL style / 600 V Rating UL/ETL style / 600 V Rating certificate of suitability	Yes; E130266 AWM STYLE 21279  Yes Yes Cat6A  No No No No No No No
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