SIEMENS

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)

Industrial Ethernet TP Cord RJ45/RJ45, CAT 6A, TP cable 4x2, pre-assembled with 2 RJ45 connectors, length 20 m.



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	20 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	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated 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 	white/blue, white/orange, white/green, white/brown

• of cable sheath	green				
bending radius	green				
with single bend / minimum permissible	31 mm				
with multiple bends / minimum permissible	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 	-25 +80 °C				
during storage	-25 +80 °C				
during transport	-25 +80 °C				
during installation	-25 +80 °C				
• note	In fixed installation -40 °C to 80 °C				
fire behavior	flame resistant according to IEC 60332-1-2, smoke density according to IEC 61034				
class of burning behaviour / according to EN 13501-6	Eca				
chemical resistance					
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)				
• to grease	Conditional resistance				
radiological resistance / to UV radiation	not resistant				
protection class IP	IP20				
product features, product functions, product components / gen	eral				
product feature					
 halogen-free 	Yes				
silicon-free	Yes				
test voltage					
• at AC / core-to-core	500 V				
• at AC / core shield	1500 V				
standards, specifications, approvals					
UL/ETL listing / 300 V Rating	No				
UL/ETL style / 600 V Rating	Yes				
certificate of suitability EAC approval 	ISO/IEC 11801-1, IEC 61035 Yes				
UL approval	Yes				
RoHS conformity	Yes				
standard for structured cabling	Cat6A				
Marine classification association					
American Bureau of Shipping Europe Ltd. (ABS)	No				
French marine classification society (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				
reference code					
according to IEC 81346-2	WG				
 according to IEC 81346-2:2019 	WGB				
further information / internet links					
internet link					
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358				
 to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud				
to web page: SiePortal	https://sieportal.siemens.com/				
 to website: Image database 	https://www.automation.siemens.com/bilddb				
- to website CAy Download Menorer	mps.//www.ddtomation.siemens.com/bilddb				
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to website: CAX-Download-manager to website: Industry Online Support					
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