SIEMENS

Data sheet 6XV1870-3QN40

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 40 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	40 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 bending radius with single bend / minimum permissible with multiple bends / minimum permissible weight per length plug	31 mm 43.5 mm 50 kg/km
with single bend / minimum permissible with multiple bends / minimum permissible weight per length	43.5 mm 50 kg/km
with multiple bends / minimum permissible weight per length	43.5 mm 50 kg/km
weight per length	50 kg/km
	DIAE
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 / gene	ral
product feature	
halogen-free	Yes
• silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	Yes; E130266 AWM STYLE 21279
certificate of suitability	ISO/IEC 11801-1, IEC 61035
EAC approval	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) Control Contr	No
Det Norske Veritas (DNV)	No
Germanische Lloyd (GL)	No
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (NK) Polati Brigata (Atthorn (RRS))	No No
Polski Rejestr Statkow (PRS) Teferance code	No
reference code	WC
according to IEC 81346-2 according to IEC 91346-3:2010	WG
according to IEC 81346-2:2019 further information / internet links	WGB
further information / internet links	
internet link	https://www.gutomotion.giomese.gen/hilddh
to website: Image database to website: Industry Online Support	https://www.automation.siemens.com/bilddb
to website: Industry Online Support security information	https://support.industry.siemens.com
security information	Ciamana manifes and take and a lating with industrial
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit

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Approvals / Certificates

General Product Approval

Test Certificates

Manufacturer Declara-<u>tion</u>

tion



Declaration of Conformity



Manufacturer Declara-<u>tion</u>

Special Test Certific-<u>ate</u>

other		Environment	Industrial Communication		
	Manufacturer Declara-	<u>Miscellaneous</u>	Confirmation	<u>PROFINET</u>	

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