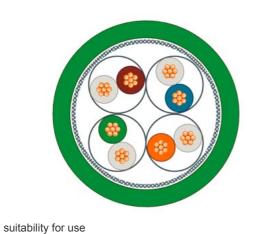
## **SIEMENS**

Data sheet 6XV1870-3QN25

## 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 25 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	25 m
electrical data	
attenuation factor per length	
<ul><li>at 10 MHz / maximum</li></ul>	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
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	
<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	
<ul> <li>of the wire insulation</li> </ul>	polyethylene (PE)
<ul> <li>of cable sheath</li> </ul>	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
during storage	-25 +80 °C
<ul> <li>during transport</li> </ul>	-25 +80 °C
<ul> <li>during installation</li> </ul>	-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	/ general
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	165, L 130200 AVVIVI 311LL 21219
EAC approval	Yes
UL approval	Yes
	Cat6A
standard for structured cabling  Marine classification association	CdloA
	No
American Bureau of Shipping Europe Ltd. (ABS)      Formal marries along fination assists (PV)	No No
French marine classification society (BV)  Pat Name (BN) (CAN) (CAN	No No
Det Norske Veritas (DNV)	No No
Germanische Lloyd (GL)	No
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (NK)     Poloki Poisots Statkov (RRS)	No No
Polski Rejestr Statkow (PRS)	No
reference code	WO
• acc. to IEC 81346-2	WG
• according to IEC 81346-2:2019	WGB
further information / internet-Links	
Internet-Link	
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	http://www.siemens.com/tia-selection-tool
<ul> <li>to website: Industrial communication</li> </ul>	http://www.siemens.com/simatic-net
to website: Industry Mall	https://mall.industry.siemens.com
<ul> <li>to website: Information and Download Center</li> </ul>	http://www.siemens.com/industry/infocenter
<ul> <li>to website: Selection guide for cables and connectors</li> </ul>	https://sie.ag/2QdlxcP
<ul> <li>to website: Image database</li> </ul>	http://automation.siemens.com/bilddb
<ul><li>to website: CAx-Download-Manager</li></ul>	http://www.siemens.com/cax
<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemens.com
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