SIEMENS

Data sheet

6XV1870-3QH20

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 2 m.



suitability for use	Easy connection of terminal devices to the IE FC cabling system
wire length	2 m
lectrical 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 %
nechanical data	
number of electrical cores	8
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

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		
	latched		
type of plug interlock			
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 / ge			
product features, product functions, product components rige			
•	Yes		
halogen-free			
PoE capability	Yes		
• PoE+ capability	Yes		
 PoE++ capability 	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; E502506 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) 	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	WC		
reference code • according to IEC 81346-2	WG		
reference code • according to IEC 81346-2 • according to IEC 81346-2:2019	WG WGB		
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General Product Ap- proval	Test Certificates	Industrial Communic	ation		
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that support the secure operation of plants, systems, machines and networks.

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