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Data sheet

product type designation product description

6XV1878-2A

suitability for use	Standard cable with rigid cores for fast, permanent installation
cable designation	2YH (ST) CY 4x2x0,5/1,0 GN
electrical data	
attenuation factor per length	
• at 10 MHz / maximum	0.058 dB/m
• at 100 MHz / maximum	0.191 dB/m
• at 250 MHz / maximum	0.311 dB/m
• at 300 MHz / maximum	0.343 dB/m
• at 500 MHz / maximum	0.453 dB/m
impedance	
• at 1 MHz 100 MHz	100 Ω
near-end crosstalk per length	
• at 1 MHz 100 MHz	0.453 dB/m
• at 1 MHz 250 MHz	0.393 dB/m
• at 1 MHz 300 MHz	0.381 dB/m
• at 1 MHz 500 MHz	0.348 dB/m
coupling loss / at 30 MHz 100 MHz / minimum	80 dB
transfer impedance per length / at 10 MHz	20 mΩ/m
loop resistance per length / maximum	190 mΩ/m
insulation resistance coefficient	5000 GΩ·m
operating voltage	
RMS value	80 V
• maximum	80 V
NVP value in percent	67 %
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
type of electrical connection / FastConnect	Yes
core diameter	
 of AWG24 insulated conductor 	0.51 mm
outer diameter	
of inner conductor	0.51 mm
of the wire insulation	1 mm
 of the inner sheath of the cable 	6.1 mm
of cable sheath	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
material	

IE FC TP Standard Cable GP 4x2 (AWG 24, Type C)

Shielded TP installation cable (8-core), sold by the meter, unassembled

Industrial Ethernet FastConnect TP standard cable GP 4x 2, TP installation CAT6A cable for connection to IE FC RJ45 plug 4x 2, AWG24, sold by the meter, delivery unit max. 2000 m minimum order quantity 20 m.

 of the wire insulation 	polyethylene (PE)
 of the inner sheath of the cable 	FRNC
 of cable sheath 	PVC
color	
 of the insulation of data wires 	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
 of cable sheath 	green
bending radius	9.00.1
	24 mm
with single bend / minimum permissible	24 mm
with multiple bends / minimum permissible	40 mm
tensile load / maximum	100 N
weight per length	74.5 kg/km
ambient conditions	
ambient temperature	
 during operation 	-40 +85 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
during installation	-40 +80 °C
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ambient condition / for operation	Temperature range for permanent installation -40 °C to +85 °C
fire behavior	flame resistant according to IEC 60332-3-24 (Category C)
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
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components / gen	eral
product feature	
-	No
halogen-free	No
• silicon-free	Yes
wire length / for Industrial Ethernet	
 with 100BaseTX 	100 m
 with 1000BaseT 	100 m
 for 10GBase T 	90 m
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; c(UL)us, CMG, AWM-Style 21500, cRU AWM I A/B 60°C 300V FT2
UL/ETL style / 600 V Rating	No
UL/ETL style / 600 V Rating certificate of suitability	No
UL/ETL style / 600 V Rating certificate of suitability • EAC approval	No
UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking	No Yes Yes
UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity	No
UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity product conformity	No Yes Yes Yes
UL/ETL style / 600 V Rating certificate of suitability • EAC approval • CE marking • RoHS conformity product conformity • ANSI/TIA-EIA 568-B.2 Cat.5e	No Yes Yes
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- to website: Information and Download Center
- to website: Selection guide for cables and connectors
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

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http://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

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