SIEMENS

Data sheet

6XV1878-5TN10

product type designation product description

IE TP Cord M12-180/RJ45-180

Flexible plug-in cable (8-wire), preferred length, pre-assembled with 1 x IE M12 plug 4X2, X-coded, 180 degrees cable outlet and 1x RJ45 connector; 4x2, 180 degrees cable outlet

IE TP Cord M12-180/RJ45-180, pre-assembled IE Flexible Cable, with 1x M12 plug (X-coded) 180 degrees cable outlet and 1x RJ45 plug; 180-degree cable outlet; length 10.0 m.



suitability for use	For connecting Industrial Ethernet stations with an M12 interface (e.g. SCALANCE W and SCALANCE X)
wire length	10 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	0.402 dB/m
• at 600 MHz / maximum	0.735 dB/m
impedance	
• at 1 MHz 100 MHz	100 Ω
near-end crosstalk per length	
• at 100 MHz	0.724 dB/m
• at 300 MHz	0.653 dB/m
• at 600 MHz	0.608 dB/m
loop resistance per length / maximum	290 mΩ/m
insulation resistance coefficient	5000 GΩ·m
operating voltage	
RMS value	80 V
NVP value in percent	68 %
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	No
core diameter	
 of AWG26 insulated conductor 	0.48 mm
outer diameter	
 of the wire insulation 	1 mm
 of the inner sheath of the cable 	5.4 mm
of cable sheath	6.5 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm
material	
 of the wire insulation 	polyethylene (PE)
of cable sheath	PUR
color	

• of the insulation of data wiron	white/blue_white/orange_white/orange_white/brown
 of the insulation of data wires of cable sheath 	white/blue, white/orange, white/green, white/brown
• or cable sheath bending radius	green
с С	32.5 mm
with single bend / minimum permissible with multiple bands / minimum permissible	65 mm
with multiple bends / minimum permissible tensile load / maximum	100 N
weight per length	45 kg/km
ambient conditions	
ambient temperature	20. · · 00.°C
during operation	-30 +80 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
during installation	-40 +80 °C
fire behavior	flame resistant according to IEC 60332-1-2, smoke density according to IEC 61034
chemical resistance	
• to mineral oil	oil resistant according to DIN EN 60811-2-1
• to grease	Conditional resistance
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
protection class IP	IP65/67 (M12), IP20 (RJ45)
product features, product functions, product components / gene	
product feature	
halogen-free	Yes
silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; AWM Style 21815
UL/ETL style / 600 V Rating	No
certificate of suitability	ISO/IEC 11801-1, IEC 61035
EAC approval	Yes
• CE marking	Yes
RoHS conformity	Yes
standard for structured cabling	Cat6A
Marine classification association	Gaion
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 	WG
according to IEC 81346-2.2019 further information / internet links	
internet link	https://signattal.signang.com/
to web page: SiePortal to website: Image database	https://sieportal.siemens.com/
to website: Image database to website: Industry Online Support	https://www.automation.siemens.com/bilddb
to website: Industry Online Support	https://support.industry.siemens.com
security information	
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 www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available

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Approvals / Certificates

General Product Approval

<u>Manufacturer Declara-</u> tion

CE

EG-Konf.

Declaration of Conformity

last modified:

6/3/2024 🖸