SIEMENS

Data sheet 6XV1878-5TN50

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; 1x RJ45 plug; 180-degree cable outlet; length



suitability for use	For connecting Industrial Ethernet stations with an M12 interface (e.g. SCALANCE W and SCALANCE X)
wire length	50 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 %
nechanical 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

white/blue, white/orange, white/green, white/brown green 32.5 mm 65 mm 100 N 45 kg/km -30 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC 61034
32.5 mm 65 mm 100 N 45 kg/km -30 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC
65 mm 100 N 45 kg/km -30 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC
65 mm 100 N 45 kg/km -30 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC
100 N 45 kg/km -30 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC
45 kg/km -30 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC
-30 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC
-40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC
-40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC
-40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC
-40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC
-40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC
flame resistant according to IEC 60332-1-2, smoke density according to IEC
oil resistant according to DIN EN 60811-2-1
Conditional resistance
conditional resistance
resistant
IP65/67 (M12), IP20 (RJ45)
al
Yes
Yes
Yes; AWM Style 21815
No
ISO/IEC 11801-1, IEC 61035
Yes
Yes
Yes
Cat6A
No
110
WG
WGB
WOD
https://support.industry.siemens.com/cs/ww/en/view/109766358
https://www.siemens.com/tstcloud
https://sieportal.siemens.com/
https://www.automation.siemens.com/bilddb
https://www.siemens.com/cax
https://support.industry.siemens.com
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 and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

Manufacturer Declaration



Declaration of Conformity

last modified: 8/8/2024 🖸