## 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 2 number of electrical connections attenuation factor per length • at 10 MHz / maximum 0.086 dB/m 0.28 dB/m • at 100 MHz / maximum • 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 80 V RMS value NVP value in percent 68 % 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

<ul> <li>of the insulation of data wires</li> </ul>	white/blue, white/orange, white/green, white/brown
of cable sheath	green
bending radius	
<ul> <li>with single bend / minimum permissible</li> </ul>	32.5 mm
with multiple bends / minimum permissible	65 mm
tensile load / maximum	100 N
weight per length	45 kg/km
ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-30 +80 °C
during storage	-40 +80 °C
<ul> <li>during transport</li> </ul>	-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 / general	
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	
EAC approval	Yes
• CE marking	Yes
RoHS conformity	Yes
standard for structured cabling	Cat6A
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
French marine classification society (BV)	No
Det Norske Veritas (DNV)	No
Germanische Lloyd (GL)	No
Lloyds Register of Shipping (LRS)	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
Polski Rejestr Statkow (PRS)	No
reference code	
according to IEC 81346-2	WG
<ul> <li>according to IEC 81346-2:2019</li> </ul>	WGB
further information / internet links	
internet link	
to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
to web page. selection and the selection room     to website: Industrial communication	http://www.siemens.com/simatic-net
to website: Industrial communication     to website: Industry Mall	https://mall.industry.siemens.com
to website: Information and Download Center	http://www.siemens.com/industry/infocenter
<ul> <li>to website: Information and Download Center</li> <li>to website: Selection guide for cables and connectors</li> </ul>	https://www.siemens.com/industry/infocenter
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to website: Image database     to website: Inductor Opline Support	http://automation.siemens.com/bilddb
to website: Industry Online Support	https://support.industry.siemens.com
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