SIEMENS

Data sheet 6XV1878-5TN30

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 30.0 m.



suitability for use	For connecting Industrial Ethernet stations with an M12 interface (e.g. SCALANCE W and SCALANCE X)		
wire length	30 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					
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-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					
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General Product Approval

Declaration of Conformity

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8/8/2024