## **SIEMENS**

Data sheet 6XV1878-5SN10

## product type designation

product description

## IE TP Cord M12-90/RJ45-180

Flexible plug-in cable (8-wire), preferred length, pre-assembled with 1 x IE M12 plug 4X2, X-coded, 90 degrees cable outlet and 1x RJ45 connector; 4x2, 180 degrees cable outlet

IE TP Cord M12-90/RJ45-180, pre-assembled IE Flexible Cable, with 1x M12 plug (X-coded); 90-degree cable outlet; 1x RJ45 plug; 180-degree cable outlet; length 10.0 m  $\,$ 



Technical Product Detail Page	https://i.siemens.com/1P6XV1878-5SN10
suitability for use	For connecting Industrial Ethernet stations with an M12 interface (e.g. SCALANCE W and SCALANCE X)
cable designation	S/FTP
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	S/FTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned copper wires
type of electrical connection / FastConnect	No
core diameter	
<ul> <li>of AWG26 insulated conductor</li> </ul>	0.48 mm
outer diameter	
<ul> <li>of the wire insulation</li> </ul>	1 mm
<ul> <li>of the inner sheath of the cable</li> </ul>	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
olor	
	white/blue, white/orange, white/green, white/brown
	green
ending radius	gicon
	32.5 mm
	65 mm
	100 N
	45 kg/km
pient conditions	+3 kg/kiii
nbient temperature	
	-30 +80 °C
	-40 +80 °C
	-40 +80 °C
3	-40 +80 °C
<u> </u>	
	flame resistant according to IEC 60332-1-2, smoke density according to IEC 61034
nemical resistance	
	oil resistant according to DIN EN 60811-2-1
	Conditional resistance
	conditional resistance
0	resistant
	IP65/67 (M12), IP20 (RJ45)
duct features, product functions, product components / genera	al .
oduct feature	
halogen-free	Yes
PoE capability	Yes
PoE+ capability	Yes
PoE++ capability	Yes
• silicon-free	Yes
ndards, specifications, approvals	
L/ETL listing / 300 V Rating	Yes
L/ETL style / 600 V Rating	No
ertificate of suitability	ISO/IEC 11801-1, IEC 61035
EAC approval	Yes
CE marking	Yes
RoHS conformity	Yes
andard for structured cabling	Cat6A
arine classification association	
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
her information / internet links	
ternet link	
to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: SiePortal	https://sieportal.siemens.com/
to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
the state of the s	
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## Approvals / Certificates

**General Product Approval** 

Declaration of Conformity



Manufacturer Declaration

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