SIEMENS

Data sheet 6XV1878-5HN30

product type designation

product description

IE TP Cord M12-180/M12-180

Flexible plug-in cable (8-wire), preferred length, prefabricated with two IE FC M12 connectors 4X2 (X-coded)

IE TP Cord M12-180/M12-180 pre-assembled IE Flexible Cable, with 2 M12 connectors (X-coded), length 30.0 m.



suitability for use	For connecting Industrial Ethernet stations with an M12 interface (e.g. SCALANCE W and XP-200)
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
coupling loss / at 30 MHz 100 MHz / minimum	80 dB
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 wires	white/blue, white/orange, white/green, white/brown
of cable sheath	green
bending radius	
 with single bend / minimum permissible 	32.5 mm
with multiple bends / minimum permissible	65 mm
tensile load / maximum	100 N
weight per length	45 kg/km
plug	
type of plug interlock	screwed
connector coding	
 of the M12 circular connector 	X-coded
ambient conditions	
ambient temperature	
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
chemical resistance	61034
• 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
product features, product functions, product components / gen	
	erai
product feature	V
• 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
CE markingRoHS conformity	Yes Yes
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RoHS conformity	Yes
RoHS conformity standard for structured cabling	Yes
RoHS conformity standard for structured cabling Marine classification association	Yes Cat6A
RoHS conformity standard for structured cabling Marine classification association American Bureau of Shipping Europe Ltd. (ABS)	Yes Cat6A No
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