SIEMENS

Data sheet 6XV1878-5HH30

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 3.0 m $\,$



suitability for use	For connecting Industrial Ethernet stations with an M12 interface (e.g. SCALANCE W and XP-200)
wire length	3 m
electrical data	

wire length	3111
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	

operating voitage	
 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
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 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
product features, product functions, product component	s / 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	
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) Nippen Keiji Kuckej (NK)	No No
Nippon Kaiji Kyokai (NK) Poloki Polostr Statkov (NPS)	No No
Polski Rejestr Statkow (PRS)	No
reference code	WO
• acc. to IEC 81346-2	WG
according to IEC 81346-2:2019 Surther information / internet Links	WGB
further information / internet-Links	
Internet-Link	http://www.siamana.com/kilkitl
to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
to website: Industrial communication	http://www.siemens.com/simatic-net
to website: Industry Mall	https://mall.industry.siemens.com
to website: Information and Download Center	http://www.siemens.com/industry/infocenter
 to website: Selection guide for cables and connectors 	https://sie.ag/2QdlxcP
to website: Image database	http://automation.siemens.com/bilddb
to website: CAx-Download-Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
last modified:	12/31/2021 🗗