SIEMENS

Data sheet 6XV1871-8AN15

product type designation	**IE Connecting Cable M12-180/M12-180**
product description	flexible connecting cable (4-wire), preferred length, preassembled with two 4-pin M12 plugs (D-coded, 180° cable outlet, push-pull connection system in accordance with IEC 61076-2-012 for ET200SP BusAdapter)
	IE connecting cable M12 push pull 180 / M12 push pull 180, only for ET200SP BusAdapter preassembled with IE FC trailing cable GP, M12 plugs (D-coded, push-pull), length 15.0 m.



product brand name	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6XV1871-8AN15
suitability for use	for connecting Industrial Ethernet stations (SIMATIC ET200 or XF-200 with M12 bus adapter) with degree of protection IP20
cable designation	2YY (ST) CY 2x2x0,75/1,5-100 LI GN
wire length	15 m
electrical data	
number of electrical connections	2
attenuation factor per length	
● at 10 MHz / maximum	0.063 dB/m
● at 100 MHz / maximum	0.213 dB/m
impedance	
● at 1 MHz ... 100 MHz	100 Ω
relative symmetrical tolerance	
● of the characteristic impedance at 1 MHz … 100 MHz	5 %
near-end crosstalk per length	
● at 1 MHz ... 100 MHz	0.5 dB/m
transfer impedance per length / at 10 MHz	20 mΩ/m
loop resistance per length / maximum	120 mΩ/m
operating voltage	
● RMS value	80 V
NVP value in percent	66 %
mechanical data	
number of electrical cores	4
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
core diameter	
● of AWG22 insulated conductor	0.75 mm
outer diameter	
● of inner conductor	0.75 mm
● of the wire insulation	1.5 mm
● of the inner sheath of the cable	3.9 mm
● of cable sheath	6.5 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
material	
● of the wire insulation	polyethylene (PE)

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● of the inner sheath of the cable	PVC
● of cable sheath	PVC
color	
● of the insulation of data wires	white/yellow/blue/orange
● of cable sheath	green
bending radius	
● with single bend / minimum permissible	32.5 mm
● with multiple bends / minimum permissible	49 mm
● with continuous bending	100 mm
number of bending cycles	3000000; for use in cable carriers, for 3 million bending cycles with a bending radius of 200 mm, a speed of 4 m/s, and an acceleration of 4 m/s²
tensile load / maximum	150 N
weight per length	68 kg/km
plug	
type of plug interlock	screwed
design of plug-in connection	M12-180
connector coding	M12 push-pull
● of the M12 circular connector	D-coded
ambient conditions	
ambient temperature	
● during operation	-25 ... +75 °C
● during storage	-25 ... +75 °C
● during transport	-25 ... +75 °C
● during installation	-10 ... +60 °C
● note	electrical properties measured at 20 °C
fire behavior	flame resistant according to UL 1685 (CSA FT 4)
chemical resistance	
● to mineral oil	conditional resistance
● to grease	Conditional resistance
radiological resistance / to UV radiation	resistant
protection class IP	IP20
product features, product functions, product components / general	
product feature	
● halogen-free	No
● PoE capability	Yes
● PoE+ capability	Yes
● silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES
UL/ETL style / 600 V Rating	Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2
certificate of suitability	
● EAC approval	Yes
● CE marking	Yes
● RoHS conformity	Yes
standard for structured cabling	Cat5e
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)	No
● Nippon Kaiji Kyokai (NK)	No
● Polski Rejestr Statkow (PRS)	No
further information / internet links	
internet 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

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● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

security information

security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

Declaration of Conformity	CE EG-Konf.	Manufacturer Declaration	CE EG-Konf.

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