

product type designation

product description

Robust Power Connecting Cable M12-180/M12-180, IP69, 2 m

Robust, flexible connection cable (4-wire), preferred length, preassembled with two 4 pin M12 connectors (A-coded)

Robust Power Connecting Cable M12-180/M12-180, IP69, for Power supply of the ET 200, pre-assembled cable with M12 plug and M12 socket, A-coded, 4-pole, 2.0 m.



product brand name

SIMATIC NET

Technical Product Detail Page

<https://l.siemens.com/1P6XV1801-5AH20>

suitability for use

For connecting Industrial Ethernet stations with degree of protection IP65/67/69. Cable with FEP jacket (fluorinated plastic, perfluoroethylene propylene) for use in the food, beverage and tobacco industry (IP69 resistant). Cable is water-repellent, weather-proof, resistant to microbes, and extremely resistant to many cleaning agents and disinfectants (such as hypochlorite, chlorine dioxide, peroxyacetic acid, and quaternary ammonium cations).

cable designation

LI9YY6Y 4X1X0.75 GY

wire length

2 m

electrical data

insulation resistance coefficient

20 GΩ·m

operating voltage / RMS value

300 V

conductor cross section / of the power line

0.75 mm²

continuous current / of the power lines

6.5 A; at 40°C according to DIN VDE 0891-1 (8 A at 20°C according to DIN VDE 0891-1)

mechanical data

number of electrical cores

4

outer diameter

- of inner conductor
- of the wire insulation
- of cable sheath

1.15 mm
1.7 mm
5.7 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.2 mm

conductor class

5

material

- of the conductor
- of the wire insulation
- of cable sheath

CU, blank
PP
PVC/FEP; FEP transparent

product component / PE connection

No

marking / of cores

Color

color

- of the power line insulation
- of cable sheath

brown / blue, white / black
gray

bending radius

- with single bend / minimum permissible
- with multiple bends / minimum permissible
- with continuous bending

23 mm
46 mm
100 mm

number of bending cycles

1000000; acceleration 4 m/s²

number of torsion cycles / with torsion by $\pm 180^\circ$ on 1 m cable length	1000000
tensile load / maximum	150 N
weight per length	53 kg/km
ambient conditions	
ambient temperature - during operation - during storage - during transport - during installation	-40 ... +90 °C -40 ... +90 °C -40 ... +90 °C -40 ... +90 °C
fire behavior	Flame-resistant acc. to IEC 60332-1-2
chemical resistance - to mineral oil - to grease - to water	oil resistant according to DIN EN 60811-404 (7x24h/90°C) resistant resistant
radiological resistance / to UV radiation	resistant according to UL 2556 Sec. 4.2.8.5
protection class IP	IP69
product features, product functions, product components / general	
product feature - halogen-free - silicon-free	No Yes
standards, specifications, approvals	
certificate of suitability - EAC approval - RoHS conformity	UL: E337822 PROCESSED WIRE COMPONENT Yes Yes
further information / internet links	
internet link - to website: Selection guide for cables and connectors - to web page: selection aid TIA Selection Tool - to website: Industrial communication - to web page: SiePortal - to website: Image database - to website: CAX-Download-Manager - to website: Industry Online Support	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax 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](#)



[Manufacturer Declaration](#)

[China RoHS](#)

General Product Approval

Industrial Communication



[PROFINET](#)

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