

product type designation

product description

**Robust Power Connecting Cable M12-180/M12-180, IP69, 1 m**

Rugged, flexible plug-in cable (4-core), preferred length, preassembled with two 4-pole M12 plugs (L-coded)

robust power connecting cable M12-180/M12-180; IP69; 4x1.5 sq. mm for power supply of end devices/network components; preassembled cable with M12 plug and M12 socket; L-coded; 4-pole; 1 m



Technical Product Detail Page

<https://i.siemens.com/1P6XV1801-6EH10>

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 4X1X1.5 VZN GY

wire length

1 m

**electrical data**

insulation resistance coefficient

20000 MΩ·m

operating voltage / RMS value

300 V

conductor cross section / of the power line

1.5 mm<sup>2</sup>

continuous current / of the power lines

12.5 A

**mechanical data**

number of electrical cores

4

outer diameter

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

1.5 mm  
2.4 mm  
7.6 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, tin-coated  
PP  
PVC/FEP; FEP transparent

property of the cable sheath / oil-resistant

Yes

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

30 mm  
61 mm  
100 mm

number of bending cycles

500000; acceleration 4 m/s<sup>2</sup>

number of torsion cycles / with torsion by ± 180° on 1 m cable

1000000

length	
tensile load / maximum	150 N
weight per length	107 kg/km
<b>plug</b>	
type of plug interlock	screwed
design of plug-in connection	M12-180
connector coding	M12
connector coding / of the M12 circular connector	L-coded
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>during installation</li> </ul>	-40 ... +90 °C
fire behavior	Flame-resistant acc. to IEC 60332-1-2
chemical resistance	
<ul style="list-style-type: none"> <li>to mineral oil</li> <li>to grease</li> <li>to water</li> </ul>	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	IP67/IP69
<b>product features, product functions, product components / general</b>	
product feature	
<ul style="list-style-type: none"> <li>halogen-free</li> <li>silicon-free</li> </ul>	No Yes
<b>standards, specifications, approvals</b>	
UL/ETL listing / 300 V Rating	Yes
certificate of suitability	CMG FT4 75°C or (ETL)us PLTC-ER SUN RES OIL RES I or E502506-LFR AWM 22165 AWM I A/B 90°C 300V FT2
<ul style="list-style-type: none"> <li>EAC approval</li> <li>RoHS conformity</li> <li>for hygienic design</li> </ul>	Yes Yes EHEDG (cable material)
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to web page: SiePortal</li> <li>to website: Image database</li> <li>to website: CAX-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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<b>Approvals / Certificates</b>	
General Product Approval	Food, Pharmaceutical, Medical

[Manufacturer Declaration](#)



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