

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



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 mm²

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/s²

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

1000000

tensile load / maximum

150 N

weight per length	107 kg/km
plug	
type of plug interlock	screwed
design of plug-in connection	M12-180
connector coding	M12
connector coding / of the M12 circular connector	L-coded
ambient conditions	
ambient temperature	
• during operation	-40 ... +90 °C
• during storage	-40 ... +90 °C
• during transport	-40 ... +90 °C
• during installation	-40 ... +90 °C
fire behavior	Flame-resistant acc. to IEC 60332-1-2
chemical resistance	
• to mineral oil	oil resistant according to DIN EN 60811-404 (7x24h/90°C)
• to grease	resistant
• to water	resistant
radiological resistance / to UV radiation	resistant according to UL 2556 Sec. 4.2.8.5
protection class IP	IP67/IP69
product features, product functions, product components / general	
product feature	
• halogen-free	No
• silicon-free	Yes
standards, specifications, approvals	
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
• EAC approval	Yes
• RoHS conformity	Yes
• for hygienic design	EHEDG (cable material)
reference code	
• according to IEC 81346-2:2019	WDB
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 website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• 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)
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last modified:

8/18/2024 