

product type designation

product description

Robust Power Connecting Cable M12-180/M12-180, IP69, 3 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, 3.0 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 4X1X0.75 GY

wire length

3 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

4.5 A

mechanical data

number of electrical cores

4

outer diameter

- of inner conductor

1.15 mm

- of the wire insulation

1.7 mm

- of cable sheath

5.7 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.2 mm

conductor class

5

material

- of the conductor

CU, blank

- of the wire insulation

PP

- of cable sheath

PVC/FEP; FEP transparent

product component / PE connection

No

marking / of cores

Color

color

- of the power line insulation

brown / blue, white / black

- of cable sheath

gray

bending radius

- with single bend / minimum permissible

23 mm

- with multiple bends / minimum permissible

46 mm

- with continuous bending

100 mm

number of bending cycles

1000000; acceleration 4 m/s²

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

1000000

cable length	
tensile load / maximum	150 N
weight per length	53 kg/km
ambient conditions	
ambient temperature	
• during operation	-40 ... +80 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• during installation	-40 ... +80 °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	IP69
product features, product functions, product components / general	
product feature	
• halogen-free	No
• silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	UL: E337822 PROCESSED WIRE COMPONENT
• EAC approval	Yes
• RoHS conformity	Yes
further information / internet-Links	
Internet-Link	
• 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:	5/20/2021 