

### product type designation

product description

### Power Connecting Cable M12-180/M12-180

Flexible plug-in cable (4-wire), preferred length, pre-assembled with one 4-pin M12 male and one female connector (L-coded, 180° cable outlet)

Power connecting cable M12-180/M12-180 for the power supply of the terminal devices / network components: pre-assembled cable with M12 plug and M12 socket, L-coded, 4-pole, 10 m.



suitability for use

Cable for connecting the 24 V power supply to RF185C, RF186C, RF188C to IP65/67 degree of protection

cable designation

LIYY 4X1X1.5 BK

wire length

10 m

### electrical data

operating voltage / RMS value

600 V

conductor cross section / of the power line

1.5 mm<sup>2</sup>

continuous current / of the power lines

16 A

### mechanical data

number of electrical cores

4

type of electrical connection

M12-180

outer diameter

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

1.6 mm  
2.3 mm  
7.7 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.3 mm

conductor class

5

material

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

CU, blank  
PVC  
PVC

product component / PE connection

No

marking / of cores

Color

color

- of the power line insulation
- of cable sheath

brown / white / blue / black  
Black

bending radius

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

31 mm  
62 mm  
62 mm

number of bending cycles

2000000

tensile load / maximum

100 N

weight per length

97 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                                                | -20 ... +90 °C                                                                                      |
| • during storage                                                  | -30 ... +90 °C                                                                                      |
| • during transport                                                | -30 ... +90 °C                                                                                      |
| • during installation                                             | -20 ... +90 °C                                                                                      |
| fire behavior                                                     | Flame-resistant acc. to IEC 60332-1-2                                                               |
| chemical resistance                                               |                                                                                                     |
| • to mineral oil                                                  | Oil resistant according to EN 50290-2-22 (VDE 0819), compound type TM55 (7x24h/90 °C)               |
| • to grease                                                       | Conditional resistance                                                                              |
| • to water                                                        | Conditional resistance                                                                              |
| radiological resistance / to UV radiation                         | resistant                                                                                           |
| protection class IP                                               | IP65 / 67                                                                                           |
| 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                                        |                                                                                                     |
| • EAC approval                                                    | Yes                                                                                                 |
| • RoHS conformity                                                 | Yes                                                                                                 |
| further information / internet links                              |                                                                                                     |
| internet link                                                     |                                                                                                     |
| • to web page: selection aid TIA Selection Tool                   | <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>   |
| • to website: Industrial communication                            | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                 |
| • to website: Industry Mall                                       | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                   |
| • to website: Information and Download Center                     | <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> |
| • to website: Selection guide for cables and connectors           | <a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a>                                         |
| • to website: Image database                                      | <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>             |
| • to website: CAX-Download-Manager                                | <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                 |
| • to website: Industry Online Support                             | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>             |

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