

### product type designation

product description

### Power Connecting Cable M12-90/M12-90

Flexible plug-in cable (4-wire), preferred length, pre-assembled with one 4-pin M12 male and one female connector (L-coded, 90° cable outlet)

Power connecting cable M12-90/M12-90 for the power supply of the terminal devices / network components: pre-assembled cable with M12 plug and M12 socket, L-coded, 4 pin, 1 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

1 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

M12-90

outer diameter

- of inner conductor

1.6 mm

- of the wire insulation

2.3 mm

- of cable sheath

7.7 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.3 mm

conductor class

5

material

- of the conductor

CU, blank

- of the wire insulation

PVC

- of cable sheath

PVC

product component / PE connection

No

marking / of cores

Color

color

- of the power line insulation

brown / white / blue / black

- of cable sheath

Black

bending radius

- with single bend / minimum permissible

31 mm

- with multiple bends / minimum permissible

62 mm

- with continuous bending

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

M12-90

connector coding

M12

connector coding / of the M12 circular connector

L-coded

| ambient conditions  |  |
|---|--|
| 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>   | -20 ... +90 °C<br>-30 ... +90 °C<br>-30 ... +90 °C<br>-20 ... +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 EN 50290-2-22 (VDE 0819), compound type TM55 (7x24h/90 °C)<br>Conditional resistance<br>Conditional resistance  |
| radiological resistance / to UV radiation   | resistant  |
| protection class IP   | IP65 / 67  |
| product features, product functions, product components / general   |  |
| product feature   |  |
| <ul style="list-style-type: none"> <li>halogen-free</li> <li>silicon-free</li> </ul>  | No<br>Yes  |
| standards, specifications, approvals  |  |
| UL/ETL listing / 300 V Rating   | Yes  |
| certificate of suitability  |  |
| <ul style="list-style-type: none"> <li>EAC approval</li> <li>RoHS conformity</li> </ul>   | Yes<br>Yes   |
| further information / internet links  |  |
| internet link   |  |
| <ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: Information and Download Center</li> <li>to website: Selection guide for cables and connectors</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul> | <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a><br><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a><br><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a><br><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a><br><a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a><br><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a> |

last modified:

5/16/2023 