

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, 5 m.



Technical Product Detail Page

<https://i.siemens.com/1P6XV1801-6GH50>

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

5 m

electrical data

operating voltage / RMS value

600 V

conductor cross section / of the power line

1.5 mm²

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
- 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 | M12-90 |
| 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 |
| ambient condition / for operation | temperature range for permanent installation -30 °C to 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 | UL2238 E300110 |
| • EAC approval | Yes |
| • RoHS conformity | Yes |
| 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 | |
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