

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, 1.5 m.



Technical Product Detail Page

<https://i.siemens.com/1P6XV1801-6GH15>

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

1.5 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

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	
• 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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