

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, 3 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

3 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	
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 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: 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	
Approvals / Certificates		
General Product Ap- proval	Test Certificates	Industrial Communication
Manufacturer Declara- tion	Manufacturer Declara- tion	PROFINET

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