

product type designation

product description

Control connecting cable M12-180/M12-180

Flexible plug-in cable (5-wire), preferred length, pre-assembled with one 5-pin M12 male and one female connector (A-coded, IO-Link Port Class B, 180° cable outlet)

Control connecting cable M12-180/M12-180; 5-core; IO-Link port Class B; pre-assembled with M12 plug and M12 socket (A-coded); straight cable outlet, length 2.0 m.



Figure similar

suitability for use

Plug-in cable for connecting IO-Link components and sensing mechanisms to IO modules, degree of protection IP 65/67

wire length

2 m

electrical data

operating voltage / RMS value

300 V

conductor cross section / of the power line

0.4 mm²

continuous current / of the power lines

2.5 A

mechanical data

number of electrical cores

5

type of electrical connection

M12-180

AWG number

24

outer diameter

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

0.7 mm
1.2 mm
5.3 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.3 mm

material

- of the conductor
- of cable sheath

CU, blank
PUR

product component / PE connection

No

marking / of cores

Color

color

- of the power line insulation
- of cable sheath

Brown / white / blue / black / gray
Black

bending radius

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

21 mm
42 mm

tensile load / maximum

10 N

weight per length

40 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

A coded

ambient conditions	
ambient temperature	
• during operation	-15 ... +80 °C
• during storage	-25 ... +80 °C
• during transport	-25 ... +80 °C
• during installation	-15 ... +80 °C
fire behavior	Flame-resistant according to IEC 60332-1-2, UL 2556, Sec. 9.3 (FT1), CSA C22.2 No.2556, UL 1581, Sec. 1061 (cable flame)
class of burning behaviour / according to EN 13501-6	Fca
chemical resistance	
• to mineral oil	Conditional resistance
• to grease	Conditional resistance
• to water	Conditional resistance
protection class IP	IP65 / 67
product features, product functions, product components / general	
product feature	
• halogen-free	Yes
• silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; UL Style 20233 (80°C/300V) CSA C22.2 No. 210 I/II A/B FT1
certificate of suitability	
• 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: Selection guide for cables and connectors	https://sie.ag/2QdlxcP
• 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

last modified:

5/11/2022 