

Data sheet

6XV1801-2CH50

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 5.0 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

5 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 0.7 mm
- of the wire insulation 1.2 mm
- of cable sheath 5.3 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.3 mm

material

- of the conductor CU, blank
- of cable sheath PUR

product component / PE connection

No

marking / of cores

Color

color

- of the power line insulation Brown / white / blue / black / gray
- of cable sheath Black

bending radius

- with single bend / minimum permissible 21 mm
- with multiple bends / minimum permissible 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	<ul style="list-style-type: none"> • during operation • during storage • during transport • during installation
	-15 ... +80 °C -25 ... +80 °C -25 ... +80 °C -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	<ul style="list-style-type: none"> • to mineral oil • to grease • to water
	Conditional resistance Conditional resistance Conditional resistance
protection class IP	IP65 / 67
product features, product functions, product components / general	
product feature	
<ul style="list-style-type: none"> • halogen-free • silicon-free 	Yes 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	
<ul style="list-style-type: none"> • EAC approval • RoHS conformity 	Yes Yes
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Selection guide for cables and connectors • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support 	http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter https://sie.ag/2QdIxcP http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

last modified:

5/11/2022 