

## 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
cable designation	LIHH11Y 5X1X0.25 SW
wire length	5 m
<b>electrical data</b>	
operating voltage / RMS value	300 V
conductor cross section / of the power line	0.4 mm <sup>2</sup>
continuous current / of the power lines	2.5 A
<b>mechanical data</b>	
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
conductor class	6
material	
• of the conductor	CU, blank
• of the wire insulation	FRNC
• 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
<b>plug</b>	
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
radiological resistance / to UV radiation	sunlight resistant acc. to UL 2556 sec. 4.2.8.5 (720h)
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	UL2238 E300110
• EAC approval	Yes
• RoHS conformity	Yes
reference code	
• according to IEC 81346-2:2019	WDB
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
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Approvals / Certificates	
General Product Approval	



[Manufacturer Declaration](#)

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