

Data sheet

6XV1801-6DH20

Product type designation

Product description

Power Connecting Cable M12-180/M12-180

Flexible plug-in cable (4-wire), preferred length, pre-assembled with one 4-pin M12 male and one female connector (L-coded, 180° cable outlet)

Power connecting cable M12-180/M12-180 for power supply of the ET 200, harness cable with M12 connector and M12 socket, L-coded, 4-pole, 2.0 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	2 m

Electrical data

Operating voltage / RMS value	600 V
Conductor cross section / of the power wire	1.5 mm ²
Continuous current / of the power wires	16 A

Mechanical data

Number of electrical cores	4
Type of electrical connection	M12-180
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 • of the wire insulation • of cable sheath	CU, blank PVC PVC
Product component / PE connection	No
Marking / of cores	Color
Color • of the power wire 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
Type of plug interlock	screwed
Design of plug-in connection	M12-180
Connector coding	M12
Connector coding / of the M12 circular connector	L-coded

Ambient conditions

Ambient temperature • during operation • during storage • during transport • during installation	-20 ... +90 °C -30 ... +90 °C -30 ... +90 °C -20 ... +90 °C
Burning behavior	Flame-resistant acc. to IEC 60332-1-2
Chemical resistance • to mineral oil • to grease • to water	Oil resistant according to EN 50290-2-22 (VDE 0819), compound type TM55 (7x24h/90 °C) Conditional resistance Conditional resistance
Radiological resistance / to UV radiation	resistant
Protection class IP	IP65 / 67

Product features, product functions, product components / general

Product feature • halogen-free • silicon-free	No Yes
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Standards, specifications, approvals

Certificate of suitability • RoHS conformity	Yes
Further information / Internet-Links	
Internet-Link • to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx Download Manager • to website: Industry Online Support	http://www.siemens.com/snst http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
last modified:	05/08/2020