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Data sheet 6XV1801-6DH50

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, 5 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	5 m

Electrical data	
Operating voltage / RMS value	600 V
Conductor cross section / of the power wire	1.5 mm²
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

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Symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm
Conductor class	5
Material	
• of the conductor	CU, blank
• of the wire insulation	PVC
• of cable sheath	PVC
Product component / PE connection	No
Marking / of cores	Color
Color	
• of the power wire insulation	brown / white / blue / black
• of cable sheath	Black
Bending radius	
• with single bend / minimum permissible	31 mm
• with multiple bends / minimum permissible	62 mm
• with continuous bending	62 mm
Number of bending cycles	2000000
Tensile load / maximum	100 N
Weight per length	97 kg/km

connector	
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	-20 ... +90 °C
• during storage	-30 ... +90 °C
• during transport	-30 ... +90 °C
• during installation	-20 ... +90 °C
Burning 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

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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	http://www.siemens.com/snst
• 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
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