SIEMENS

Data sheet 6XV1801-5GH20

product type designation	**Power Connecting Cable M12-90/M12-90**
product description	Flexible plug-i...able outl002
	Power connecting cable M12-90/M12-90 for the power supply of the ET200, pre-assembled cable with M12 plug and M12 socket, A-coded, 4 pin 2 m.



product brand name	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6XV1801-5GH20
suitability for use	Plug-in cable for connecting 24 V power supply to ET 200 & XP-200 with IP 65/67 degree of protection
cable designation	LI9YH-Y 4x0.75
wire length	2 m
electrical data	
operating voltage / RMS value	300 V
conductor cross section / of the power line	0.75 mm²
mechanical data	
number of electrical cores	4
type of electrical connection	M12-180
outer diameter	
● of inner conductor	1.1 mm
● of the wire insulation	1.7 mm
● of cable sheath	5.7 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
design of stranding element	Pairs
conductor class	5
material	
● of the conductor	CU, blank
● of the wire insulation	PP
● of cable sheath	PVC
product component / PE connection	No
marking / of cores	Color
color	
● of the power line insulation	brown / white / blue / black
● of cable sheath	gray
bending radius	
● with single bend / minimum permissible	57 mm
● with multiple bends / minimum permissible	57 mm
● with continuous bending	57 mm
number of bending cycles	100000
tensile load / maximum	15 N
weight per length	54 kg/km
plug	
type of plug interlock	screwed

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design of plug-in connection	M12-90
connector coding	M12
connector coding / of the M12 circular connector	A coded
ambient conditions	
ambient temperature	
● during operation	-25 ... +80 °C
● during storage	-25 ... +80 °C
● during transport	-25 ... +80 °C
● during installation	80 °C
ambient condition / for operation	With moving applications, the permissible operating temperature range is -5 to +80 degrees Celsius
fire behavior	Flame-resistant acc. to UL 758 (CSA FT 1)
chemical resistance	
● to mineral oil	Conditional resistance
● to grease	Conditional resistance
radiological resistance / to UV radiation	not resistant
protection class IP	IP65 / 67
product features, product functions, product components / general	
product feature	
● halogen-free	No
● silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; AWM 2464/10493 AWM I/II A/B 80°C 300V FT1
certificate of suitability	
● EAC approval	Yes
● RoHS conformity	Yes
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

Declaration of Conformity | Manufacturer Declaration

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