

**product type designation**

product description

**Power Connecting Cable M12-90/M12-90**

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 1 m.



Technical Product Detail Page

<https://l.siemens.com/1P6XV1801-5GH10>

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

1 m

**electrical data**

operating voltage / RMS value

300 V

conductor cross section / of the power line

0.75 mm<sup>2</sup>

**mechanical data**

number of electrical cores

4

type of electrical connection

M12-180

outer diameter

- of inner conductor
- of the wire insulation
- of cable sheath

1.1 mm  
1.7 mm  
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
- of the wire insulation
- of cable sheath

CU, blank  
PP  
PVC

product component / PE connection

No

marking / of cores

Color

color

- of the power line insulation
- of cable sheath

brown / white / blue / black  
gray

bending radius

- with single bend / minimum permissible
- with multiple bends / minimum permissible
- with continuous bending

57 mm  
57 mm  
57 mm

number of bending cycles

100000

tensile load / maximum

15 N

weight per length

54 kg/km

**plug**

type of plug interlock

screwed

design of plug-in connection

M12-90

connector coding	M12
connector coding / of the M12 circular connector	A coded
<b>ambient conditions</b>	
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

<b>product features, product functions, product components / general</b>	
product feature	
• halogen-free	No
• silicon-free	Yes

<b>standards, specifications, approvals</b>	
UL/ETL listing / 300 V Rating	Yes; AWM 2464/10493 AWM I/II A/B 80°C 300V FT1
certificate of suitability	UL2238 E300110
• EAC approval	Yes
• RoHS conformity	Yes

<b>further information / internet links</b>	
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>

<b>security information</b>	
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<b>Approvals / Certificates</b>	
General Product Approval	Industrial Communication



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