

product type designation

product description

Cable RS422, M12 / M12

Highly flexible communication line (6-core)

SIMATIC RF, MV plug-in cable, pre-assembled, between ASM 456, RF160C, RF170C, RF18XC and reader, or extension cable for ASM 456, RF160C, RF170C, RF18XC with RF, MV, MOBY PUR, trailing, length 20 m.



Technical Product Detail Page

<https://l.siemens.com/1P6GT2891-4FN20>

suitability for use

Plug-in or extension cable for connecting a reader to a communication module

cable designation

L-YC11Y 6x1x0.25 6x24AWG CM

wire length

20 m

electrical data

number of electrical connections

2

type of electrical connection

M12 (male, 8 pin, straight) / M12 (female, 8 pin, straight)

loop resistance per length / maximum

160 mΩ/m

insulation resistance coefficient

20 GΩ·m

operating voltage

- maximum

300 V

mechanical data

number of electrical cores

6

design of the shield

Braided shield made of tin-plated copper wires

outer diameter

- of cable sheath

5.4 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.2 mm

material

- of the wire insulation
- of cable sheath

PVC

PUR

color

- of the insulation of data wires
- of cable sheath

DIN 47100

Black

bending radius

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

21.6 mm

43 mm

75 mm

number of bending cycles

3000000

tensile load / maximum

200 N

weight per length

45 kg/km

ambient conditions

ambient temperature

- during operation
- during storage
- during transport
- during installation

-30 ... +80 °C

-30 ... +80 °C

-30 ... +80 °C

-30 ... +80 °C

fire behavior

flame resistant according to IEC 60332-1-2

class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
<ul style="list-style-type: none"> to mineral oil to grease 	resistant resistant
radiological resistance / to UV radiation	resistant

product features, product functions, product components / general

product feature	
<ul style="list-style-type: none"> halogen-free silicon-free 	No Yes

standards, specifications, approvals

UL/ETL listing / 300 V Rating	Yes; CM (only cable without plug)
certificate of suitability	
<ul style="list-style-type: none"> EAC approval 	Yes

further information / internet links

internet link	
<ul style="list-style-type: none"> to website: Selection guide for cables and connectors to web page: selection aid TIA Selection Tool to web page: SiePortal to website: Image database to website: CAX-Download-Manager to website: Industry Online Support 	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com

security information

security information	<p>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)</p>
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Approvals / Certificates

General Product Approval	EMV
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[KC](#)

other

[Miscellaneous](#)

last modified: 10/28/2025