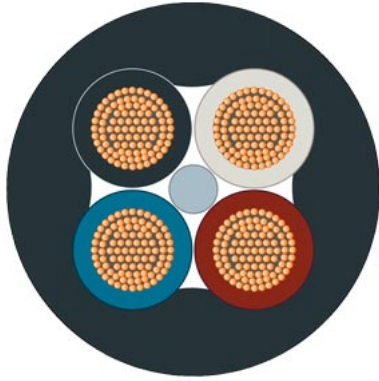


### product type designation

product description



### FRNC Energy Cable 4 x 1,5

halogen-free power cable (4-core), sold by the meter, unassembled

FRNC Energy Cable 4x 1.5 power line; 4-core stranded wire 1.5 mm<sup>2</sup>; delivery unit: max. 1000 m, minimum order quantity 20 m Sold by the meter

Technical Product Detail Page

<https://l.siemens.com/1P6XV1801-2F>

suitability for use

connection of 24 V power supply

### electrical data

operating voltage / RMS value

80 V

conductor cross section / of the power line

1.5 mm<sup>2</sup>

continuous current / of the power lines

16 A

### mechanical data

number of electrical cores

4

outer diameter

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

1.6 mm  
2.3 mm  
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  
FRNC  
FRNC

product component / PE connection

No

marking / of cores

Color

color

- of the power line 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

tensile load / maximum

100 N

weight per length

109 kg/km

### ambient conditions

ambient temperature

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

-40 ... +105 °C  
-40 ... +105 °C  
-40 ... +105 °C  
-30 ... +105 °C

fire behavior

Flame-resistant acc. to IEC 60332-1-2

class of burning behaviour / according to EN 13501-6

Eca

chemical resistance	resistant to fuel Conditional resistance Conditional resistance
<ul style="list-style-type: none"> <li>to mineral oil</li> <li>to grease</li> <li>to water</li> </ul>	
radiological resistance / to UV radiation	resistant according to UL 2556 Sec. 4.2.8.5 (720h)

**product features, product functions, product components / general**

product feature	Yes; halogen-free according to IEC 60754-1/2
<ul style="list-style-type: none"> <li>halogen-free</li> <li>low-emission according to IEC 61034-2</li> <li>silicon-free</li> </ul>	Yes Yes

**standards, specifications, approvals**

UL/ETL listing / 300 V Rating	Yes; c(ETL)us 3047254 CM 75°C
UL/ETL style / 600 V Rating	Yes; E502506 AWM STYLE 21216 105°C
certificate of suitability	Yes
<ul style="list-style-type: none"> <li>EAC approval</li> <li>RoHS conformity</li> </ul>	Yes Yes


**further information / internet links**

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

**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 <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . 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 <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)
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**Approvals / Certificates**

<b>General Product Approval</b>	<b>Environment</b>
<a href="#">Manufacturer Declaration</a>  <small>EG-Konf.</small>	<a href="#">Fire safety / Physical security</a> <a href="#">Environmental Confirmations</a>

last modified: 10/29/2025 