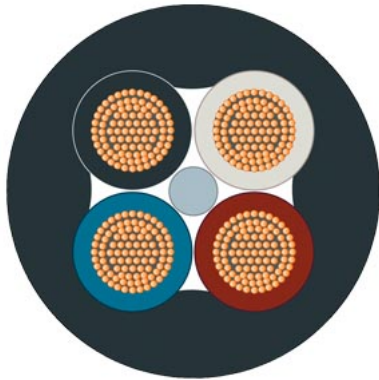


product type designation

product description



Energy cable 4 x 1.5

Power cable (4-core), sold by the meter, unassembled

Energy cable, 4-core power line, stranded wire, 4x 1.5 mm², trailable Delivery unit: max. 1000 m, minimum order quantity 20 m sold by the meter

product brand name

SIMATIC NET

Technical Product Detail Page

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

suitability for use

connection of 24 V power supply

cable designation

LIYY 4X1X1.5 BK

electrical data

operating voltage / RMS value

600 V

conductor cross section / of the power line

1.5 mm²

continuous current / of the power lines

15 A; at 40°C according to DIN VDE 0891-1 (17 A at 20°C according to DIN VDE 0891-1)

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
PVC
PVC

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

number of bending cycles

2000000

tensile load / maximum

100 N

weight per length

97 kg/km

ambient conditions

ambient temperature

- during operation
- during storage

-20 ... +90 °C
-30 ... +90 °C

during transport	-30 ... +90 °C
during installation	-20 ... +90 °C
ambient condition / for operation	temperature range for permanent installation -30 °C to 90 °C
fire behavior	Flame-resistant acc. to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6	Eca
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	resistant according to UL 758 (75°C)
radiological resistance / to UV radiation	resistant

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; c(ETL)us 3047254 CM 75°C
UL/ETL style / 600 V Rating	Yes; E502506 AWM STYLE 21216 90°C
certificate of suitability	wet-resistant according to UL Style 22374
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)
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Approvals / Certificates

General Product Approval

[Manufacturer Declaration](#)

[Declaration of Conformity](#)



[Fire safety / Physical security](#)



[Declaration of Conformity](#)

other	Environment	Industrial Communication
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[Miscellaneous](#)

[Environmental Conformations](#)

[Environmental Conformations](#)

[PROFINET](#)

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5/9/2026 