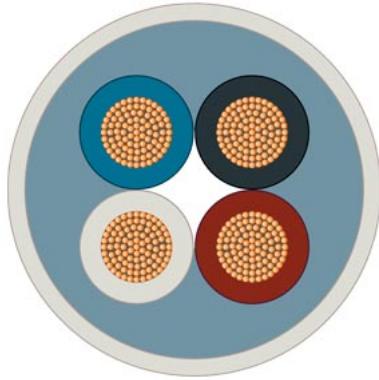


## Data sheet

## 6XV1801-2A

### product type designation

#### product description



### Robust Energy Cable 4 x 0,75

Robust, flexible energy cable (4-wire), sold by the meter, unassembled

Robust Energy Cable, 4-core power line, stranded wires 4x 0.75 mm<sup>2</sup> delivery unit: max. 1000 m, minimum order quantity 20 m sold by the meter

#### Technical Product Detail Page

<https://i.siemens.com/1P6XV1801-2A>

#### suitability for use

Cable with FEP jacket (fluorinated plastic, perfluoroethylene propylene) for use in the food, beverage and tobacco industry (IP65/67/69 resistant, EHEDG approval). Cable is water-repellent, weather-proof, resistant to microbes, and extremely resistant to many cleaning agents and disinfectants (such as hypochlorite, chlorine dioxide, peroxyacetic acid, and quaternary ammonium cations).

#### cable designation

LI9YY6Y 4X1X0.75 GY

### electrical data

|   |                      |
|---|----------------------|
| insulation resistance coefficient           | 20 GΩ·m              |
| operating voltage / RMS value               | 300 V                |
| conductor cross section / of the power line | 0.75 mm <sup>2</sup> |
| continuous current / of the power lines     | 8 A                  |

### mechanical data

|   |   |
|---|---|
| number of electrical cores  | 4                                       |
| outer diameter  |   |
| • of inner conductor  | 1.15 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                                  |
| conductor class   | 5                                       |
| material  |   |
| • of the conductor  | CU, blank                               |
| • of the wire insulation  | PP                                      |
| • of cable sheath   | PVC/FEP; FEP transparent                |
| product component / PE connection                                     | No                                      |
| marking / of cores  | Color                                   |
| color   |   |
| • of the power line insulation  | brown / blue, white / black             |
| • of cable sheath   | gray                                    |
| bending radius  |   |
| • with single bend / minimum permissible                              | 23 mm                                   |
| • with multiple bends / minimum permissible                           | 46 mm                                   |
| • with continuous bending   | 100 mm                                  |
| number of bending cycles  | 500000; acceleration 4 m/s <sup>2</sup> |
| number of torsion cycles / with torsion by ± 180° on 1 m cable length | 1000000                                 |
| tensile load / maximum  | 150 N                                   |
| weight per length   | 53 kg/km                                |

| ambient conditions  |   |
|---|---|
| ambient temperature   | <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> <li>• during installation</li> <li>• note</li> </ul>   |
|   | -40 ... +90 °C  |
|   | electrical characteristics measured at 20 °C, tests according to DIN 47250 Part 4 or DIN VDE 0472   |
| fire behavior   | Flame-resistant acc. to IEC 60332-1-2   |
| class of burning behaviour / according to EN 13501-6              | Eca   |
| chemical resistance   | <ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to grease</li> <li>• to water</li> </ul>   |
|   | oil resistant according to DIN EN 60811-404 (7x24h/90°C)  |
|   | resistant   |
|   | resistant   |
| radiological resistance / to UV radiation                         | resistant according to UL 2556 Sec. 4.2.8.5   |
| 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, CMG FT4 75°C, (ETL)us PLTC-ER, SUN RES, OIL RES I or E130266 AWM 22161 AWM I A/B 80°C 300V FT2   |
| UL/ETL style / 600 V Rating                                       | No  |
| certificate of suitability  |   |
| • EAC approval  | Yes   |
| • RoHS conformity   | Yes   |
| • for hygienic design   | EHEDG, Installation and layout of the cables must fulfil the requirements of EHEDG published in the Guidelines Doc. 13 Hygienic Design of open equipment for processing food and Doc. 44 Hygienic Design Principles for food factories to be accessible for cleaning. Also connections must be easily cleanable by using EHEDG certified cable glands or connectors.  |
| 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><br><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a><br><a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a><br><a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a><br><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a><br><a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>   |
| 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 <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)</p> |
| Approvals / Certificates  |   |
| General Product Approval  |   |

[Manufacturer Declaration](#)



[China RoHS](#)

[Fire safety / Physical security](#)

Food, Pharmaceutical, Medical

Environment

Industrial Communication

[EHEDG](#)

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