SIEMENS

## Data sheet 6XV1812-8A

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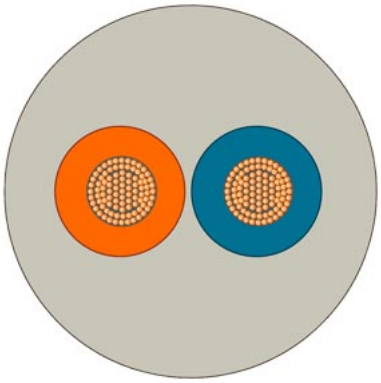
| **product type designation** | **Energy cable 2 x 0.75** |
| product description | Power cable (2-core), sold by the meter, unassembled |
| | Energy cable, 2-wire power line, stranded wire, 2x 0.75 mm2, trailable Delivery unit max. 2000 m minimum order quantity 20 m sold by the meter |



| | |
|---|---|
| suitability for use | Connection of signaling contact and 24 V power supply to SCALANCE X and SCALANCE W |
| cable designation | L-YY-2x1x0.75 GR |
| **electrical data** | |
| insulation resistance coefficient | 1 GΩ·m |
| operating voltage / RMS value | 600 V |
| conductor cross section / of the power line | 0.75 mm² |
| continuous current / of the power lines | 6 A |
| **mechanical data** | |
| number of electrical cores | 2 |
| outer diameter | |
| ● of inner conductor | 1.3 mm |
| ● of the wire insulation | 2.5 mm |
| ● of cable sheath | 7.4 mm |
| symmetrical tolerance of the outer diameter / of cable sheath | 0.3 mm |
| design of stranding element | Pairs |
| conductor class | 5 |
| material | |
| ● of the conductor | CU, blank |
| ● of the wire insulation | PVC |
| ● of cable sheath | PVC |
| product component / PE connection | No |
| marking / of cores | Color |
| color | |
| ● of the power line insulation | brown / blue |
| ● of cable sheath | gray |
| bending radius | |
| ● with single bend / minimum permissible | 19 mm |
| ● with multiple bends / minimum permissible | 45 mm |
| ● with continuous bending | 57 mm |
| number of bending cycles | 100000 |
| tensile load / maximum | 100 N |
| weight per length | 70 kg/km |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -20 ... +80 °C |
| ● during storage | -20 ... +80 °C |
| ● during transport | -20 ... +80 °C |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|---|---|
| ● during installation | -20 ... +80 °C |
| ambient condition / for operation | temperature range for permanent installation -30 °C to 90 °C |
| fire behavior | Flame-resistant acc. to IEC 60332-1 |
| class of burning behaviour / according to EN 13501-6 | Eca |
| chemical resistance | |
| ● to mineral oil | Conditional resistance |
| ● to grease | Conditional resistance |
| ● to water | Conditional resistance |
| 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; CL3 |
| UL/ETL style / 600 V Rating | Yes |
| certificate of suitability | |
| ● EAC approval | Yes |
| ● RoHS conformity | Yes |
| reference code | |
| ● according to IEC 81346-2:2019 | WDB |
| **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) |

## Approvals / Certificates

### General Product Approval

Manufacturer Declaration

CE EG-Konf.

Declaration of Conformity

UK CA

CCC

China RoHS

| General Product Approval | Environment | Industrial Communication |
|---|---|---|
| Fire safety / Physical security | Environmental Confirmations | PROFINET |


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