

## Data sheet

6XV1812-8A

### Product type designation

Product description

### Energy cable 2 x 0.75

Power cable (2-core), sold by the meter, unassembled  
SIMATIC NET ENERGY CABLE, 2-WIRE ENERGY CABLE, LITZ  
WIRE, 2 X 0.75 SQMM, TRAILING TYPE MAX. CONSIGNMENT:  
2000 M, MIN. LENGTH ORDERED: 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 wire | 0.75 mm <sup>2</sup> |
| Continuous current / of the power wires     | 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                             | Cl.5         |
| Material                                    |              |
| • of the conductor                          | CU, blank    |
| • of the wire insulation                    | PVC          |
| • of cable sheath                           | PVC          |
| Marking / of cores                          | Color        |
| Color                                       |              |
| • of the power wire insulation              | brown / blue |
| • of cable sheath                           | gray         |
| Bending radius                              |              |
| • with single bend / minimum permissible    | 19 mm        |
| • with multiple bends / minimum permissible | 45 mm        |
| Tensile load / maximum                      | 100 N        |
| Weight per length                           | 70 kg/km     |

#### Permitted ambient conditions

|                                           |                                     |
|-------------------------------------------|-------------------------------------|
| Ambient temperature                       |                                     |
| • during operation                        | -20 ... +80 °C                      |
| • during storage                          | -20 ... +80 °C                      |
| • during transport                        | -20 ... +80 °C                      |
| • during installation                     | -20 ... +80 °C                      |
| Burning behavior                          | Flame-resistant acc. to IEC 60332-1 |
| Chemical resistance                       |                                     |
| • to mineral oil                          | Conditional resistance              |
| • to grease                               | Conditional resistance              |
| • to water                                | Conditional resistance              |
| Radiological resistance / to UV radiation | resistant                           |

#### Product properties, functions, 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    |          |
| • RoHS conformity             | Yes      |

#### Further Information / Internet Links

|                                                      |                                                                                     |
|------------------------------------------------------|-------------------------------------------------------------------------------------|
| Internet-Link                                        |                                                                                     |
| • to website: Selector SIMATIC NET<br>SELECTION TOOL | <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>               |
| • to website: Industrial communication               | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> |
| • to website: Industry Mall                          | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>   |

- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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