SIEMENS

## Data sheet 6XV1801-6EE50

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| **product type designation** | **Robust Power Connecting Cable M12-180/M12-180, IP69, 0,5 m** |
| product description | Rugged, flexible plug-in cable (4-core), preferred length, preassembled with two 4-pole M12 plugs (L-coded) |
| | robust power connecting cable M12-180/M12-180; IP69; 4x1.5 sq. mm for power supply of end devices/network components; preassembled cable with M12 plug and M12 socket; L-coded; 4-pole; 0.5 m |



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| product brand name | SIMATIC NET |
| Technical Product Detail Page | https://i.siemens.com/1P6XV1801-6EE50 |
| suitability for use | For connecting Industrial Ethernet stations with degree of protection IP65/67/69. Cable with FEP jacket (fluorinated plastic, perfluoroethylene propylene) for use in the food, beverage and tobacco industry (IP69 resistant). 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 4X1X1.5 VZN GY |
| wire length | 0.5 m |
| **electrical data** | |
| insulation resistance coefficient | 20000 MΩ·m |
| operating voltage / RMS value | 300 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 | 1.5 mm |
| ● of the wire insulation | 2.4 mm |
| ● of cable sheath | 7.6 mm |
| symmetrical tolerance of the outer diameter / of cable sheath | 0.2 mm |
| conductor class | 5 |
| material | |
| ● of the conductor | CU, tin-coated |
| ● of the wire insulation | PP |
| ● of cable sheath | PVC/FEP; FEP transparent |
| property of the cable sheath / oil-resistant | Yes |
| 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 | 30 mm |
| ● with multiple bends / minimum permissible | 61 mm |
| ● with continuous bending | 100 mm |


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| number of bending cycles | 500000; acceleration 4 m/s² |
| number of torsion cycles / with torsion by ± 180° on 1 m cable length | 1000000 |
| tensile load / maximum | 150 N |
| weight per length | 107 kg/km |
| **plug** | |
| type of plug interlock | screwed |
| design of plug-in connection | M12-180 |
| connector coding | M12 |
| connector coding / of the M12 circular connector | L-coded |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -40 ... +90 °C |
| ● during storage | -40 ... +90 °C |
| ● during transport | -40 ... +90 °C |
| ● during installation | -40 ... +90 °C |
| fire behavior | Flame-resistant acc. to IEC 60332-1-2 |
| chemical resistance | |
| ● to mineral oil | oil resistant according to DIN EN 60811-404 (7x24h/90°C) |
| ● to grease | resistant |
| ● to water | resistant |
| radiological resistance / to UV radiation | resistant according to UL 2556 Sec. 4.2.8.5 |
| protection class IP | IP67/IP69 |
| **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 |
| certificate of suitability | CMG FT4 75°C or (ETL)us PLTC-ER SUN RES OIL RES I or E502506-LFR AWM 22165 AWM I A/B 90°C 300V FT2 |
| ● EAC approval | Yes |
| ● RoHS conformity | Yes |
| ● for hygienic design | EHEDG (cable material) |
| **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** | |


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| General Product Approval | | | | Food, Pharmaceutical, Medical |
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| CE EG-Konf. | Manufacturer Declaration | UL | CE EG-Konf. | EHEDG |

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