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## Data sheet 6XV1801-5AH20

**Product type designation**
Product description

**Robust Power Connecting Cable M12-180/M12-180, IP69, 2 m**
Robust, flexible connection cable (4-wire), preferred length, preassembled with two 4 pin M12 connectors (A-coded)
Robust Power Connecting Cable M12-180/M12-180, IP69, for Power supply of the ET 200, pre-assembled cable with M12 connector and M12 socket, A-coded, 4-pole, 2.0 m



| | |
|---|---|
| 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 4X1X0.75 GY |
| Wire length | 2 m |
| **Electrical data** | |
| Insulation resistance coefficient | 20 GΩ·m |
| Operating voltage / RMS value | 300 V |
| Conductor cross section / of the power wire | 0.75 mm² |
| Continuous current / of the power wires | 4.5 A |
| **Mechanical data** | |
| Number of electrical cores | 4 |


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| | |
|---|---|
| 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 wire 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 | 1000000; 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 | 53 kg/km |

## Ambient conditions

| | |
|---|---|
| Ambient temperature | |
| • during operation | -40 ... +80 °C |
| • during storage | -40 ... +80 °C |
| • during transport | -40 ... +80 °C |
| • during installation | -40 ... +80 °C |
| Burning 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 | IP69 |

## Product features, product functions, product components / general

| | |
|---|---|
| Product feature | |
| • halogen-free | No |
| • silicon-free | Yes |


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## Standards, specifications, approvals

| | |
|---|---|
| Certificate of suitability | UL: E337822 PROCESSED WIRE COMPONENT |
| • RoHS conformity | Yes |

## Further information / Internet-Links

| | |
|---|---|
| Internet-Link | |
| • to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| • to website: Industrial communication | http://www.siemens.com/simatic-net |
| • to website: Industry Mall | https://mall.industry.siemens.com |
| • to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| • to website: Image database | http://automation.siemens.com/bilddb |
| • to website: CAx Download Manager | http://www.siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |

**last modified:** 07/22/2020


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