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## Data sheet 6XV1801-6GH50

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| **product type designation** | **Power Connecting Cable M12-90/M12-90** |
| product description | Flexible plug-in cable (4-wire), preferred length, pre-assembled with one 4-pin M12 male and one female connector (L-coded, 90° cable outlet) |
| | Power connecting cable M12-90/M12-90 for the power supply of the terminal devices / network components: pre-assembled cable with M12 plug and M12 socket, L-coded, 4 pin, 5 m. |



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| suitability for use | Cable for connecting the 24 V power supply to RF185C, RF186C, RF188C to IP65/67 degree of protection |
| cable designation | LIYY 4X1X1.5 BK |
| wire length | 5 m |
| **electrical data** | |
| operating voltage / RMS value | 600 V |
| conductor cross section / of the power line | 1.5 mm² |
| continuous current / of the power lines | 16 A |
| **mechanical data** | |
| number of electrical cores | 4 |
| type of electrical connection | M12-90 |
| outer diameter | |
| ● of inner conductor | 1.6 mm |
| ● of the wire insulation | 2.3 mm |
| ● of cable sheath | 7.7 mm |
| symmetrical tolerance of the outer diameter / of cable sheath | 0.3 mm |
| 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 / white / blue / black |
| ● of cable sheath | Black |
| bending radius | |
| ● with single bend / minimum permissible | 31 mm |
| ● with multiple bends / minimum permissible | 62 mm |
| ● with continuous bending | 62 mm |
| number of bending cycles | 2000000 |
| tensile load / maximum | 100 N |
| weight per length | 97 kg/km |
| **plug** | |
| type of plug interlock | screwed |
| design of plug-in connection | M12-90 |
| connector coding | M12 |
| connector coding / of the M12 circular connector | L-coded |


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| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -20 ... +90 °C |
| ● during storage | -30 ... +90 °C |
| ● during transport | -30 ... +90 °C |
| ● during installation | -20 ... +90 °C |
| fire behavior | Flame-resistant acc. to IEC 60332-1-2 |
| chemical resistance | |
| ● to mineral oil | Oil resistant according to EN 50290-2-22 (VDE 0819), compound type TM55 (7x24h/90 °C) |
| ● to grease | Conditional resistance |
| ● to water | Conditional resistance |
| radiological resistance / to UV radiation | resistant |
| protection class IP | IP65 / 67 |
| **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 | UL2238 E300110 |
| ● EAC approval | Yes |
| ● RoHS conformity | Yes |
| **further information / internet links** | |
| internet link | |
| ● to web page: selection aid TIA Selection Tool | http://www.siemens.com/tia-selection-tool |
| ● 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: Selection guide for cables and connectors | https://sie.ag/2QdlxcP |
| ● 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 |

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