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## Data sheet 6XV1801-2CN10

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|---|---|
| **product type designation** | **Control connecting cable M12-180/M12-180** |
| product description | Flexible plug-in cable (5-wire), preferred length, pre-assembled with one 5-pin M12 male and one female connector (A-coded, IO-Link Port Class B, 180° cable outlet) |
| | Control connecting cable M12-180/M12-180; 5-core; IO-Link port Class B; pre-assembled with M12 plug and M12 socket (A-coded); straight cable outlet; length 10 m. |



Figure similar

| | |
|---|---|
| suitability for use | Plug-in cable for connecting IO-Link components and sensing mechanisms to IO modules, degree of protection IP 65/67 |
| wire length | 10 m |
| **electrical data** | |
| operating voltage / RMS value | 300 V |
| conductor cross section / of the power line | 0.4 mm² |
| continuous current / of the power lines | 2.5 A |
| **mechanical data** | |
| number of electrical cores | 5 |
| type of electrical connection | M12-180 |
| AWG number | 24 |
| outer diameter | |
| ● of inner conductor | 0.7 mm |
| ● of the wire insulation | 1.2 mm |
| ● of cable sheath | 5.3 mm |
| symmetrical tolerance of the outer diameter / of cable sheath | 0.3 mm |
| material | |
| ● of the conductor | CU, blank |
| ● of cable sheath | PUR |
| product component / PE connection | No |
| marking / of cores | Color |
| color | |
| ● of the power line insulation | Brown / white / blue / black / gray |
| ● of cable sheath | Black |
| bending radius | |
| ● with single bend / minimum permissible | 21 mm |
| ● with multiple bends / minimum permissible | 42 mm |
| tensile load / maximum | 10 N |
| weight per length | 40 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 | A coded |


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|---|---|
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -15 ... +80 °C |
| ● during storage | -25 ... +80 °C |
| ● during transport | -25 ... +80 °C |
| ● during installation | -15 ... +80 °C |
| fire behavior | Flame-resistant according to IEC 60332-1-2, UL 2556, Sec. 9.3 (FT1), CSA C22.2 No.2556, UL 1581, Sec. 1061 (cable flame) |
| class of burning behaviour / according to EN 13501-6 | Fca |
| chemical resistance | |
| ● to mineral oil | Conditional resistance |
| ● to grease | Conditional resistance |
| ● to water | Conditional resistance |
| protection class IP | IP65 / 67 |
| **product features, product functions, product components / general** | |
| product feature | |
| ● halogen-free | Yes |
| ● silicon-free | Yes |
| **standards, specifications, approvals** | |
| UL/ETL listing / 300 V Rating | Yes; UL Style 20233 (80°C/300V) CSA C22.2 No. 210 I/II A/B FT1 |
| certificate of suitability | |
| ● 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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