SIEMENS

Data sheet 6XV1878-5TH50

product type designation

product description

IE TP Cord M12-180/RJ45-180

Flexible plug-in cable (8-wire), preferred length, pre-assembled with 1 x IE M12 plug 4X2, X-coded, 180 degrees cable outlet and 1x RJ45 connector; 4x2, 180 degrees cable outlet

IE TP Cord M12-180/RJ45-180, pre-assembled IE Flexible Cable with 1x M12 connector, (x-coded) 180 degrees cable outlet and 1x RJ45 plug; 180-degree cable outlet; length 5.0 m.



| suitability for use | For connecting Industrial Ethernet stations with an M12 interface (e.g. SCALANCE W and SCALANCE X) |
|---|--|
| wire length | 5 m |
| lectrical data | |
| number of electrical connections | 2 |
| attenuation factor per length | |
| • at 10 MHz / maximum | 0.086 dB/m |
| • at 100 MHz / maximum | 0.28 dB/m |
| • at 300 MHz / maximum | 0.402 dB/m |
| • at 600 MHz / maximum | 0.735 dB/m |
| impedance | |
| at 1 MHz 100 MHz | 100 Ω |
| near-end crosstalk per length | |
| • at 100 MHz | 0.724 dB/m |
| ● at 300 MHz | 0.653 dB/m |
| ● at 600 MHz | 0.608 dB/m |
| loop resistance per length / maximum | 290 mΩ/m |
| insulation resistance coefficient | 5000 GΩ·m |
| operating voltage | |
| RMS value | 80 V |
| NVP value in percent | 68 % |
| nechanical data | |
| number of electrical cores | 8 |
| design of the shield | Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires |
| type of electrical connection / FastConnect | No |
| core diameter | |
| of AWG26 insulated conductor | 0.48 mm |
| outer diameter | |
| of the wire insulation | 1 mm |
| of the inner sheath of the cable | 5.4 mm |
| of cable sheath | 6.5 mm |
| symmetrical tolerance of the outer diameter / of cable sheath | 0.3 mm |
| material | |
| of the wire insulation | polyethylene (PE) |
| of cable sheath | PUR |

| white/blue, white/orange, white/green, white/brown green 32.5 mm 65 mm 100 N 45 kg/km -30 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC 61034 |
|--|
| 32.5 mm 65 mm 100 N 45 kg/km -30 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC |
| 65 mm 100 N 45 kg/km -30 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC |
| 65 mm 100 N 45 kg/km -30 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC |
| 100 N 45 kg/km -30 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC |
| 45 kg/km -30 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC |
| -30 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC |
| -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC |
| -40 +80 °C -40 +80 °C -40 +80 °C flame resistant according to IEC 60332-1-2, smoke density according to IEC |
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| flame resistant according to IEC 60332-1-2, smoke density according to IEC |
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| |
| oil resistant according to DIN EN 60811-2-1 |
| Conditional resistance |
| conditional resistance |
| resistant |
| IP65/67 (M12), IP20 (RJ45) |
| al |
| |
| Yes |
| Yes |
| |
| Yes; AWM Style 21815 |
| No |
| ISO/IEC 11801-1, IEC 61035 |
| Yes |
| Yes |
| Yes |
| Cat6A |
| |
| No |
| 110 |
| WG |
| WGB |
| WOD |
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| https://support.industry.siemens.com/cs/ww/en/view/109766358 |
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| https://www.siemens.com/tstcloud |
| https://sieportal.siemens.com/ |
| https://www.automation.siemens.com/bilddb |
| https://www.siemens.com/cax |
| https://support.industry.siemens.com |
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Approvals / Certificates

General Product Approval

Declaration of Conformity



Manufacturer Declaration

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