SIEMENS

## Data sheet 6GT2891-0PH50

| | |
|---|---|
| **product type designation** | **Adaptor cable for power supply, M12-8 / M12-4** |
| product description | Highly flexible cable (6-wire) |
| | SIMATIC RF600 connecting cable for 24 V connection of the readers RF610XR, RF650R, RF68XR to the power supply units of type 6GT2898-0AA and 6GT2898-0AC, PUR, length 5 m. |



| | |
|---|---|
| product brand name | SIMATIC RF |
| Technical Product Detail Page | https://i.siemens.com/1P6GT2891-0PH50 |
| suitability for use | Plug-in cable for connecting a 24 V power supply to a reader RF61XR, RF650R, RF68XR, MV440 |
| cable designation | L-YC11Y 6x1x0.25 6x24AWG CM |
| wire length | 5 m |
| **electrical data** | |
| number of electrical connections | 2 |
| loop resistance per length / maximum | 160 mΩ/m |
| insulation resistance coefficient | 20 GΩ·m |
| operating voltage / maximum | 300 V |
| **mechanical data** | |
| design of the shield | Braided shield made of tin-plated copper wires |
| number of electrical cores | 6 |
| type of electrical connection | M12 (male, 4-pin, straight) / M12 (female, 8-pin, straight) |
| outer diameter | |
| ● of cable sheath | 5.4 mm |
| symmetrical tolerance of the outer diameter / of cable sheath | 0.2 mm |
| design of stranding element | Six |
| conductor class | 5 |
| material | |
| ● of the conductor | CU, blank |
| ● of the wire insulation | PVC |
| ● of cable sheath | PUR |
| marking / of cores | Color |
| color | |
| ● of the insulation of data wires | DIN 47100 |
| ● of cable sheath | Black |
| bending radius | |
| ● with single bend / minimum permissible | 21.6 mm |
| ● with multiple bends / minimum permissible | 43 mm |
| ● with continuous bending | 75 mm |
| number of bending cycles | 3000000 |
| tensile load / maximum | 200 N |
| weight per length | 45 kg/km |
| **ambient conditions** | |
| ambient temperature | |


Subject to change without notice
© Copyright Siemens

| | |
|---|---|
| ● during operation | -30 ... +80 °C |
| ● during storage | -30 ... +80 °C |
| ● during transport | -30 ... +80 °C |
| ● during installation | -30 ... +80 °C |
| fire behavior | Flame-resistant according to IEC 60332-1-4 |
| chemical resistance | |
| ● to mineral oil | resistant |
| ● to grease | resistant |
| radiological resistance / to UV radiation | resistant |
| **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; CM |
| **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: identification and localization systems | https://www.siemens.com/ident |
| ● 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**

| General Product Approval | | | | | EMV |
|---|---|---|---|---|---|
| CE EG-Konf. | UKCA | EAC | China RoHS | Manufacturer Declaration | KC |

**last modified:** 3/10/2026


Subject to change without notice
© Copyright Siemens