SIEMENS

## Data sheet 6GK1901-1BB12-2AE0

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|---|---|
| **product type designation** | **IE FC RJ45 Plug 180 (4x2)** |
| product description | RJ45 data connector |
| | Industrial Ethernet FastConnect RJ45 plug 180 4x 2, RJ45 plug-in connector; CAT6A; (10/100/1000/10000 Mbit/s) with rugged metal enclosure and FC connection system, for IE FC TP Cable 4x 2 (AWG24); 180° cable outlet 1 pack = 50 units. |



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| product brand name | SIMATIC NET |
| Technical Product Detail Page | https://i.siemens.com/1P6GK1901-1BB12-2AE0 |
| suitability for use | For connection to IE FC TP cables 4x2, suitable for fast assembly with the FastConnect system |
| **transfer rate** | |
| transfer rate / for Industrial Ethernet | 10, 100, 1000 Mbit/s |
| transfer rate / for Industrial Ethernet | 10000 Mbit/s |
| **interfaces** | |
| number of electrical connections | |
| ● for Industrial Ethernet FC TP cables | 1 |
| ● for network components or terminal equipment | 1 |
| type of electrical connection | |
| ● for Industrial Ethernet FC TP cables | Integrated insulation-displacement contacts for 8-wire (AWG24) and 4-wire (AWG22) TP FC installation cables |
| ● for network components or terminal equipment | RJ45 connector |
| type of electrical connection / FastConnect | Yes |
| **mechanical data** | |
| material / of the enclosure | metal |
| number of reuses | 10 |
| locking mechanism design | other |
| **design, dimensions and weights** | |
| type of cable outlet | 180° cable outlet |
| width | 13.7 mm |
| height | 16 mm |
| depth | 55 mm |
| net weight | 35 g |
| connectable cable diameter | 6.5 ... 8 mm |
| connectable conductor cross-section | 0.21 ... 0.33 mm² |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -40 ... +85 °C |
| ● during storage | -40 ... +85 °C |
| ● during transport | -40 ... +85 °C |
| relative humidity | |
| ● at 25 °C / without condensation / during operation / maximum | 95 % |
| protection class IP | IP20 |
| **product features, product functions, product components / general** | |


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|---|---|
| product feature | |
| ● PoE capability | Yes |
| ● PoE+ capability | Yes |
| ● PoE++ capability | Yes |
| ● silicon-free | Yes |
| product component | |
| ● strain relief | Yes |
| test voltage | |
| ● at AC / core-to-core | 500 V |
| ● at AC / core shield | 1500 V |
| **standards, specifications, approvals** | |
| certificate of suitability | |
| ● RoHS conformity | Yes |
| ● UL approval | Yes |
| ● cULus approval | Yes |
| ● railway application in accordance with EN 50155 | No |
| resistance to air pollution / conformity according to ANSI/ISA-71.04 | Yes; G3 |
| standard for structured cabling | Cat6A |
| **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: 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

EAC | China RoHS | Manufacturer Declaration | UL | Miscellaneous | CE EG-Konf.

| Test Certificates | Maritime application | | other | Industrial Communication |
|---|---|---|---|---|
| Special Test Certificate | DNV | LRS | Miscellaneous | PROFINET |

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