

Data sheet

6GK1901-1BB12-2AA0

product type designation

product description



IE FC RJ45 Plug 180 (4x2)

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 = 1 unit.

Technical Product Detail Page

<https://l.siemens.com/1P6GK1901-1BB12-2AA0>

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	
<ul style="list-style-type: none"> for Industrial Ethernet FC TP cables 	1
<ul style="list-style-type: none"> for network components or terminal equipment 	1
type of electrical connection	
<ul style="list-style-type: none"> for Industrial Ethernet FC TP cables 	Integrated insulation-displacement contacts for 8-wire (AWG24) and 4-wire (AWG22) TP FC installation cables
<ul style="list-style-type: none"> 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 cross-section	6.5 ... 8 mm
connectable conductor cross-section	0.21 ... 0.33 mm ²

ambient conditions

ambient temperature	
<ul style="list-style-type: none"> during operation 	-40 ... +85 °C
<ul style="list-style-type: none"> during storage 	-40 ... +85 °C
<ul style="list-style-type: none"> during transport 	-40 ... +85 °C
relative humidity	
<ul style="list-style-type: none"> at 25 °C / without condensation / during operation / maximum 	95 %
protection class IP	IP20

product features, product functions, product components / general

product feature

<ul style="list-style-type: none"> • PoE capability • PoE+ capability • PoE++ capability • silicon-free 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
product component	
<ul style="list-style-type: none"> • strain relief 	Yes

standards, specifications, approvals

certificate of suitability	
<ul style="list-style-type: none"> • RoHS conformity • UL approval • cULus approval • railway application in accordance with EN 50155 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p>
resistance to air pollution / conformity according to ANSI/ISA-71.04	Yes; G3
standard for structured cabling	Cat6A

further information / internet links

internet link	
<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to web page: SiePortal • to website: Image database • to website: CAX-Download-Manager • to website: Industry Online Support 	<p>https://support.industry.siemens.com/cs/ww/en/view/109766358</p> <p>https://www.siemens.com/tstcloud</p> <p>https://www.siemens.com/simatic-net</p> <p>https://sieportal.siemens.com</p> <p>https://www.automation.siemens.com/bilddb</p> <p>https://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>

security information

security information	<p>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)</p>
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Approvals / Certificates

General Product Approval	Test Certificates
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[China RoHS](#)



[Miscellaneous](#)

[Special Test Certificate](#)

Maritime application	other	Industrial Communication
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[Miscellaneous](#)

[PROFINET](#)

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