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Data sheet 6GK1901-1BB12-2AE0

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.

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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