SIEMENS

Data sheet 6GK1901-0DB40-6AA8

product type designation	**IE FC M12 Cable Connector PRO (PROFINET)**
product description	M12 connector with socket insert with high protection class, 8-pole, X-coded
	IE FC M12 Cable Connector PRO 4x 2 M12 plug-in connectors that can be assembled in the field (X-coded); 8-pole; metal enclosure; FC quick-connect technology; Female contact insert; 1 pack=8 units.



Technical Product Detail Page	https://i.siemens.com/1P6GK1901-0DB40-6AA8
suitability for use	For connecting electrical cables to SCALANCE W (M12 gigabit interface) 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	8
● for network components or terminal equipment	1
type of electrical connection	
● for Industrial Ethernet FC TP cables	integrated insulation-displacement contacts for 8-wire TP FC installation cables AWG24/AWG26
● for network components or terminal equipment	M12 plug (X-coded, female)
type of electrical connection / FastConnect	Yes
mechanical data	
material / of the enclosure	metal
locking mechanism design	Screwed joint
tightening torque / for M12 round connector / maximum	0.6 N·m
connector coding / of the M12 circular connector	X
design, dimensions and weights	
type of cable outlet	180° cable outlet
width	16.8 mm
height	16.8 mm
depth	49 mm
net weight	40 g
connectable cable cross-section	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
chemical resistance	
● to water	resistant
protection class IP	IP65/67
product features, product functions, product components / general	

Subject to change without notice
© Copyright Siemens

product feature	
● PoE capability	Yes
● PoE+ capability	Yes
● silicon-free	Yes
product component	
● strain relief	Yes
standards, specifications, approvals	
certificate of suitability	
● RoHS conformity	Yes
● UL approval	Yes
● cULus approval	Yes
● railway application in accordance with EN 50155	Yes
● fire protection in accordance with EN 45545-2	Yes
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			Maritime application		Industrial Communication
CCC	EAC	China RoHS	DNV	LRS	PROFINET

last modified: 10/30/2025

Subject to change without notice
© Copyright Siemens