

product type designation

product description

IE FC M12 Plug PRO (PROFINET)

M12 connector with high protection, 4-pole, D-coded

Industrial Ethernet FastConnect M12 plug PRO 2x2 M12 plug-in connector with rugged metal enclosure and FC connection method, with axial cable outlet (D-coded) 1 pack=1 unit for SCALANCE X208 PRO and ET 200 PRO PN.



Technical Product Detail Page

<https://l.siemens.com/1P6GK1901-0DB20-6AA0>

suitability for use

For connecting electrical cables to SCALANCE X208PRO, ET200 PRO PN or ET200 eco PN for fast assembly with the FastConnect system

transfer rate

transfer rate / for Industrial Ethernet 10, 100 Mbit/s

interfaces

number of electrical connections

- for Industrial Ethernet FC TP cables 4
- for network components or terminal equipment 1

type of electrical connection

- for Industrial Ethernet FC TP cables integrated cut-and-clamp contacts for 4-wire TP FC installation cable AWG22
- for network components or terminal equipment M12 plug (D-coded, male)

type of electrical connection / FastConnect

Yes

mechanical data

material / of the enclosure metal

number of reuses 10

locking mechanism design Screwed joint

tightening torque / for M12 round connector / maximum 0.6 N·m

connector coding / of the M12 circular connector D

design, dimensions and weights

type of cable outlet 180° cable outlet

width 19 mm

height 19 mm

depth 73 mm

net weight 40 g

connectable cable cross-section 6.5 ... 6.5 mm

connectable conductor cross-section 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 %

chemical resistance

- to water resistant

protection class IP	IP65/67
product features, product functions, product components / general	
product feature	
<ul style="list-style-type: none"> PoE capability PoE+ capability silicon-free 	<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>
standard for structured cabling	Cat5
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> total during manufacturing during operation after end of life 	<p>0.32 kg</p> <p>0.28 kg</p> <p>0.01 kg</p> <p>0.03 kg</p>
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>
Approvals / Certificates	
General Product Approval	Maritime application
<p>Declaration of Conformity</p>  	<p>China RoHS</p>  
Maritime application	other
Environment	Industrial Communication



[Miscellaneous](#)



[PROFINET](#)

last modified:

10/30/2025