

**product type designation**

product description

**IE FC M12 Cable Connector PRO (PROFINET)**

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 = 1 unit.



Technical Product Detail Page

<https://l.siemens.com/1P6GK1901-0DB40-6AA0>

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	
<ul style="list-style-type: none"> <li>for Industrial Ethernet FC TP cables</li> <li>for network components or terminal equipment</li> </ul>	8 1
type of electrical connection	
<ul style="list-style-type: none"> <li>for Industrial Ethernet FC TP cables</li> <li>for network components or terminal equipment</li> </ul>	integrated insulation-displacement contacts for 8-wire TP FC installation cables AWG24/AWG26 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 mm <sup>2</sup>

**ambient conditions**

ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul>	-40 ... +85 °C -40 ... +85 °C -40 ... +85 °C
chemical resistance	
<ul style="list-style-type: none"> <li>to water</li> </ul>	resistant
protection class IP	IP65/67

**product features, product functions, product components / general**

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

**standards, specifications, approvals**

certificate of suitability	
<ul style="list-style-type: none"> <li>RoHS conformity</li> <li>UL approval</li> <li>cULus approval</li> <li>railway application in accordance with EN 50155</li> <li>fire protection in accordance with EN 45545-2</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
standard for structured cabling	Cat6A





**further information / internet links**

internet link	
<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to web page: SiePortal</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	<p><a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a></p> <p><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a></p> <p><a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a></p> <p><a href="https://sieportal.siemens.com">https://sieportal.siemens.com</a></p> <p><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a></p> <p><a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></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 <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. 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 <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p>
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**Approvals / Certificates**

General Product Approval	Maritime application	Industrial Communication
 <p>CCC</p>	 <p>DNV</p>	 <p>LRS</p>
	<a href="#">China RoHS</a>	<a href="#">PROFINET</a>

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