

### product type designation

product description

### IE FC M12 Plug PRO (PROFINET)

M12-Connector with high protection, 8-pole, X-coded

Industrial Ethernet FastConnect M12 plug PRO 4x 2 M12 plug-in connector with Rugged metal enclosure and FC connection method, with axial cable outlet (X-coded) 1 pack=1 unit for SCALANCE W and SCALANCE X.



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 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10000 Mbit/s

### interfaces

number of electrical connections

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

8

1

type of electrical connection

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

integrated cut-and-clamp contacts for 8-wire TP FC installation cable AWG24

M12 connector (X-coded)

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

### design, dimensions and weights

type of cable outlet

180° cable outlet

width

16.8 mm

height

16.8 mm

depth

52 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

- during operation
- during storage
- during transport

-40 ... +85 °C

-40 ... +85 °C

-40 ... +85 °C

chemical resistance

- to water

resistant

protection class IP

IP65/67


### product features, product functions, product components / general

product feature

- PoE capability
- PoE+capability

Yes

Yes

|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>● silicon-free</li> </ul>  | Yes   |
| product component   |   |
| <ul style="list-style-type: none"> <li>● strain relief</li> </ul>   | Yes   |
| <b>standards, specifications, approvals</b>   |   |
| certificate of suitability  |   |
| <ul style="list-style-type: none"> <li>● RoHS conformity</li> </ul>                                       | Yes   |
| <ul style="list-style-type: none"> <li>● UL approval</li> </ul>   | Yes   |
| <ul style="list-style-type: none"> <li>● cULus approval</li> </ul>  | Yes   |
| <ul style="list-style-type: none"> <li>● railway application in accordance with EN 50155</li> </ul>       | Yes   |
| <ul style="list-style-type: none"> <li>● fire protection in accordance with EN 45545-2</li> </ul>         | Yes   |
| standard for structured cabling   | Cat6A   |
| <b>further information / internet-Links</b>   |   |
| Internet-Link   |   |
| <ul style="list-style-type: none"> <li>● to web page: selection aid TIA Selection Tool</li> </ul>         | <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>   |
| <ul style="list-style-type: none"> <li>● to website: Industrial communication</li> </ul>                  | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                 |
| <ul style="list-style-type: none"> <li>● to website: Industry Mall</li> </ul>                             | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                   |
| <ul style="list-style-type: none"> <li>● to website: Information and Download Center</li> </ul>           | <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> |
| <ul style="list-style-type: none"> <li>● to website: Selection guide for cables and connectors</li> </ul> | <a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a>   |
| <ul style="list-style-type: none"> <li>● to website: Image database</li> </ul>                            | <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>             |
| <ul style="list-style-type: none"> <li>● to website: CAx-Download-Manager</li> </ul>                      | <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                 |
| <ul style="list-style-type: none"> <li>● to website: Industry Online Support</li> </ul>                   | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>             |
| <b>last modified:</b>   | 6/30/2021          |