

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<br>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 |



|                                                |                                                                                                                      |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 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         | 8                                                                                                                    |
| • for network components or terminal equipment | 1                                                                                                                    |
| Type of electrical connection                  |                                                                                                                      |
| • for Industrial Ethernet FC TP cables         | integrated cut-and-clamp contacts for 8-wire TP FC installation cable AWG24                                          |
| • for network components or terminal equipment | M12 connector (X-coded)                                                                                              |
| Type of electrical connection / FastConnect    | Yes                                                                                                                  |
| Mechanical data                                |                                                                                                                      |
| Material / of the enclosure                    | metal                                                                                                                |
| Locking mechanism design                       | Screw                                                                                                                |

|                                 |                   |
|---------------------------------|-------------------|
| 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      |

#### 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

|                   |     |
|-------------------|-----|
| 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: Selector SIMATIC NET SELECTION TOOL | <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>                               |
| • to website: Industrial communication            | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                 |
| • to website: Industry Mall                       | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                   |
| • to website: Information and Download Center     | <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> |
| • to website: Image database                      | <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>             |
| • to website: CAx Download Manager                | <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                 |
| • to website: Industry Online Support             | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>             |

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