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Data sheet 6GK1901-0DB50-6AA0

product type designation	**IE FC M12 Plug PRO 4X2**
product description	FC M12 plug-in connector in high degree of protection, 8-pin, X-coded
	IE FC 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	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	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	17.6 mm
height	17.6 mm
depth	70.7 mm
net weight	48 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	-50 ... +100 °C
● during transport	-50 ... +100 °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

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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
standard for structured cabling	Cat6A
further information / internet links	
internet link	
● to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
● to website: Industrial communication	http://www.siemens.com/simatic-net
● to website: Industry Mall	https://mall.industry.siemens.com
● to website: Information and Download Center	http://www.siemens.com/industry/infocenter
● to website: Selection guide for cables and connectors	https://sie.ag/2QdlxcP
● to website: Image database	http://automation.siemens.com/bilddb
● to website: CAx-Download-Manager	http://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

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