

product type designation

product description

Cable for IO-Link, M12 / M12

Sensor cable (3-core)

SIMATIC RF IO-Link connecting cable, pre-assembled, between IO-Link master and reader, both ends M12 4-pole 3-core cable, PUR, length 5 m.



Figure similar

suitability for use	Plug-in cable for connecting an IO-Link device to an IO-Link master
cable designation	LIY-11Y 4xAWG 22/19
wire length	5 m
electrical data	
number of electrical connections	2
type of electrical connection	M12 (male, 4 pin, straight) / M12 (female, 4 pin, straight)
loop resistance per length / maximum	108 mΩ/m
insulation resistance coefficient	20 GΩ·m
operating voltage	
• maximum	30 V
mechanical data	
number of electrical cores	3
design of the shield	unshielded
outer diameter	
• of cable sheath	4.3 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.15 mm
material	
• of the wire insulation	PVC
• of cable sheath	TPE-U Ether Isolation
color	
• of the insulation of data wires	brown, white, blue, black
• of cable sheath	Black
bending radius	
• with single bend / minimum permissible	34.4 mm
• with multiple bends / minimum permissible	64.5 mm
ambient conditions	
ambient temperature	
• during operation	-5 ... +80 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• during installation	-5 ... +80 °C
fire behavior	flame resistant according to AWM STYLE 21317 80°C 30V VW-1 for USA and AWM I/II A/B 80°C 30V FT-1 for Canada
product features, product functions, product components / general	
product feature	
• halogen-free	No
standards, specifications, approvals	

reference code	WG WGB
<ul style="list-style-type: none"> • according to IEC 81346-2 • according to IEC 81346-2:2019 	




further information / internet links

internet link	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to web page: SiePortal • to website: Image database • to website: CAX-Download-Manager • to website: Industry Online Support 	

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>
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Approvals / Certificates

General Product Approval	EMV	Environment
   	KC	Confirmation

last modified:

8/8/2024 