

### 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
<b>electrical data</b>	
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
<b>mechanical data</b>	
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
<b>ambient conditions</b>	
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
<b>product features, product functions, product components / general</b>	
product feature	
• halogen-free	No
<b>standards, specifications, approvals</b>	

reference code	
<ul style="list-style-type: none"> <li>• according to IEC 81346-2</li> <li>• according to IEC 81346-2:2019</li> </ul>	<p>WG</p> <p>WGB</p>
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</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/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a></p> <p><a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a></p> <p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></p> <p><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></p> <p><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>

**last modified:**

8/29/2023 