

bus cable for PROFINET pre-assembled at one end 4-core, shielded pre-assembled with 1 x M12 D-encoded length 3.0 m



General technical data		
product description		M12 plug, angled
wire length	m	3
cable designation		BUS: 2x2xAWG22/7 9YH(ST)C11Y
General technical data		
ampacity per pin maximum	A	4
operating voltage		
• at DC maximum	V	60
• at AC maximum	V	60
surge voltage resistance rated value	kV	1.5
impedance		
• at 100 MHz rated value	Ω	100
attenuation factor per length		
• at 4 MHz maximum	dB/m	0.041
• at 10 MHz maximum	dB/m	0.065
• at 16 MHz maximum	dB/m	0.083
• at 100 MHz maximum	dB/m	0.22
Mechanical data		
connector type		Plug/open
connector coding of the M12 circular connector		D
number of electrical cores		4
type of cable outlet		angled
number of poles		4
color		
• of cable sheath		green
• of the insulation of data wires		yellow, white, orange, blue
material		
• of cable sheath		Polyurethane
• of the wire insulation		Polonium
• of the enclosure		Thermoplastic polyurethane
design of the shield		Shielding braid of tinned copper wire
type of strain relief		molded
bending radius		
• with single bend minimum permissible	mm	33.5
• with multiple bends minimum permissible	mm	100.5
number of bending cycles		2 000 000
mechanical service life (mating cycles)		100
outer diameter		
• of inner conductor	mm	0.75
• of the cable	mm	6.7

symmetrical tolerance of the outer diameter of the cable	mm	0.2
conductor cross section rated value	mm <sup>2</sup>	0.34
type of plug interlock		M12 x 1 thread
cable end components		populated on both sides

**Ambient conditions**

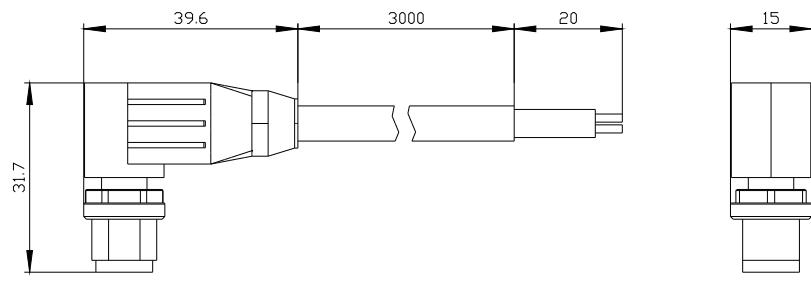
<b>chemical resistance</b>		
<ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to water</li> <li>• to grease</li> </ul>		conditional, must be checked relative to the application conditional, must be checked relative to the application conditional, must be checked relative to the application
<b>degree of pollution</b>		3

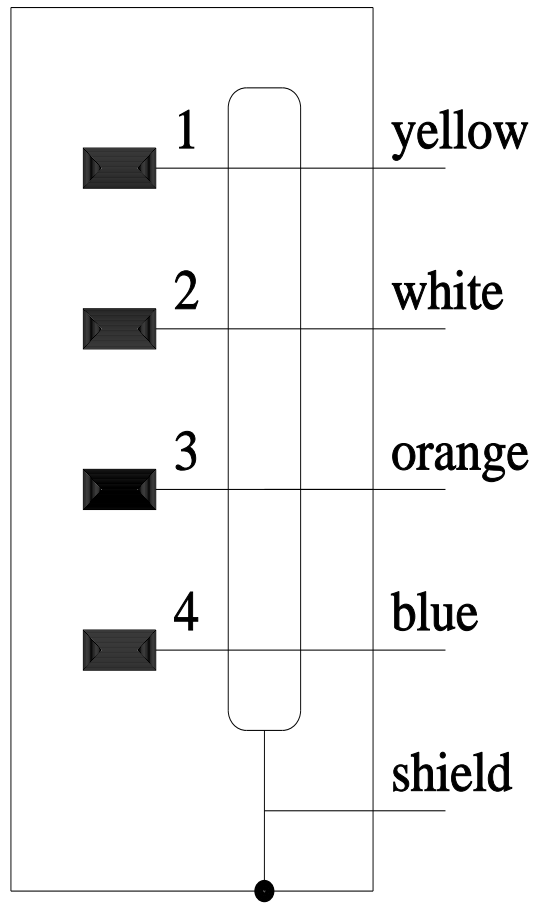
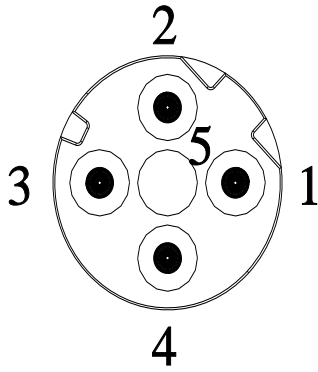
**Certificates/ approvals**

<b>certificate of suitability</b>		
<ul style="list-style-type: none"> <li>• CSA approval</li> <li>• RoHS conformity</li> <li>• UL approval</li> <li>• CCC</li> <li>• IEC approval</li> <li>• cUL approval</li> <li>• C-Tick</li> </ul>		Yes Yes Yes No Yes No No

**Further information**

Information on the packaging  
<https://support.industry.siemens.com/cs/ww/en/view/109813875>  
 Information for data generation and storage  
<https://support.industry.siemens.com/cs/ww/en/view/109995012>  
 Information- and Downloadcenter (Catalogs, Brochures,...)  
<https://www.siemens.com/ic10>  
 Industry Mall (Online ordering system)  
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1902-2HB30>  
 Cax online generator  
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1902-2HB30>  
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1902-2HB30>  
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)  
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1902-2HB30&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1902-2HB30&lang=en)





last modified:

4/2/2025 