

bus cable for PROFINET pre-assembled at one end 4-core,
shielded pre-assembled with 1 x M12 D-encoded length 5.0 m



General technical data		
product description		M12 plug, angled
wire length	m	5
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 ²	0.34
type of plug interlock		M12 x 1 thread
cable end components		populated on both sides

Ambient conditions

chemical resistance		
• to mineral oil		conditional, must be checked relative to the application
• to water		conditional, must be checked relative to the application
• to grease		conditional, must be checked relative to the application
degree of pollution		3

Certificates/ approvals

certificate of suitability		
• CSA approval		Yes
• RoHS conformity		Yes
• UL approval		Yes
• CCC		No
• IEC approval		Yes
• cUL approval		No
• C-Tick		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=3RK1902-2HB50>

Cax online generator

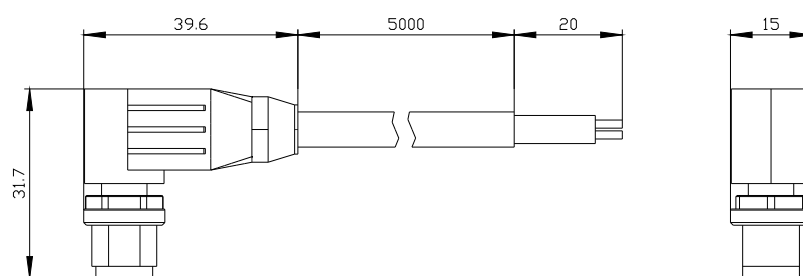
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1902-2HB50>

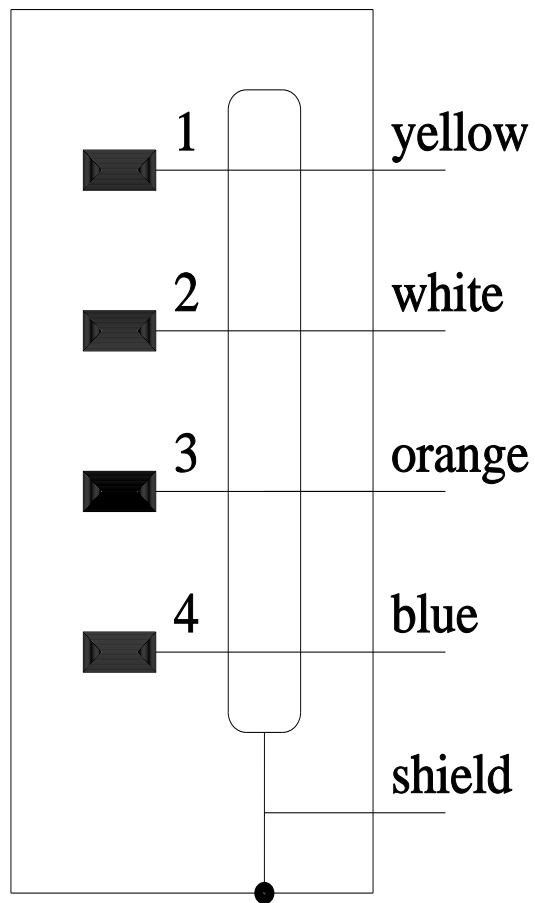
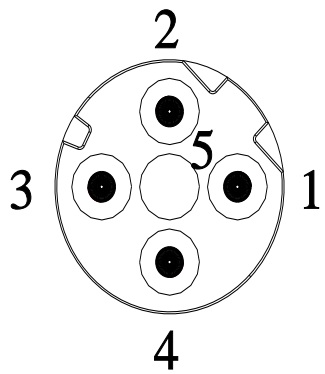
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1902-2HB50>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1902-2HB50&lang=en





last modified:

4/2/2025 [↗](#)