

Bus cable for PROFIBUS assembled on both ends 2 x M12 angled  
2-core, shielded Length 5.0 m angled



General technical data		
product description		M12 plug, angled on M12 socket, angled
wire length	m	5
cable designation		BUS: 1P24-19/2,55 02YS(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 9.6 kHz	Ω	300
• at 38.4 kHz	Ω	185
• at 3 MHz ... 20 MHz	Ω	150
symmetrical tolerance of wave impedance		
• at 38.4 kHz	Ω	20
• at 3 MHz ... 20 MHz	Ω	15
attenuation factor per length		
• at 9.6 kHz maximum	dB/km	3
• at 38.4 kHz maximum	dB/km	5
• at 4 MHz maximum	dB/km	26
• at 16 MHz maximum	dB/km	52
Mechanical data		
connector type		Plug/socket
connector coding of the M12 circular connector		B
number of electrical cores		2
type of cable outlet		angled
number of poles		2
color		
• of cable sheath		Violet
• of the insulation of data wires		Red, green
material		
• of cable sheath		Polyurethane
• of the wire insulation		Polyethylene
• 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	58.5
• with multiple bends minimum permissible	mm	78

number of bending cycles		5 000 000
mechanical service life (mating cycles)		100
outer diameter		
• of inner conductor	mm	0.64
• of the cable	mm	7.8
symmetrical tolerance of the outer diameter of the cable	mm	0.2
conductor cross section rated value	mm <sup>2</sup>	0.25
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=3RK1902-1NB50>

##### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1902-1NB50>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1902-1NB50>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1902-1NB50&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1902-1NB50&lang=en)

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