

Bus cable for PROFIBUS Pre-assembled at one end  
1xM12 angled, pin 2-core, shielded Length 3 m



### General technical data:

Product description		M12 socket, angled B coded
Wire length	m	3
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
Impedance		
• at 9.6 kHz	$\Omega$	300
• at 38.4 kHz	$\Omega$	185
• at 3 MHz ... 20 MHz	$\Omega$	150
Symmetrical tolerance of wave impedance		
• at 38.4 kHz	$\Omega$	20
• at 3 MHz ... 20 MHz	$\Omega$	15
Damping ratio per length		
• at 9.6 kHz maximum	dB/km	3

- at 38.4 kHz maximum
- at 4 MHz maximum
- at 16 MHz maximum

dB/km	5
dB/km	26
dB/km	52

#### Mechanical data:

<b>Connector type</b>		Socket/open
<b>Connector coding of the M12 circular connector</b>		B
<b>Number of electrical cores</b>		2
<b>Type of cable outlet</b>		angled
<b>Number of poles</b>		2
<b>Color</b>		
• of cable sheath		Violet
• of the insulation of data wires		Red, green
<b>Material</b>		
• of cable sheath		Polyurethane
• of the wire insulation		Polyethylene
• of the enclosure		Thermoplastic polyurethane
<b>Design of the shield</b>		Shielding braid of tinned copper wire
<b>Type of strain relief</b>		molded
<b>Bending radius</b>		
• with single bend minimum permissible	mm	58.5
• with multiple bends minimum permissible	mm	78
<b>Number of bending cycles</b>		5 000 000
<b>Mechanical service life (mating cycles)</b>		100
<b>Outer diameter</b>		
• of inner conductor	mm	0.64
• of the cable	mm	7.8
<b>Symmetrical tolerance of the outer diameter of the cable</b>	mm	0.2
<b>Conductor cross section Rated value</b>	mm <sup>2</sup>	0.25
<b>Type of plug interlock</b>		M12 x 1 thread
<b>Cable end components</b>		open on one side

#### Ambient conditions:

<b>Chemical resistance</b>		
• 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
<b>Degree of pollution</b>		3

#### Certificates/ approvals:

<b>Certificate of suitability</b>		
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- CSA-approval
- RoHS conformity
- UL approval
- CCC
- IEC certificate
- cUL approval
- C-Tick

	Yes
	Yes
	No
	No
	No
	No
	No

#### Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<http://www.siemens.com/industrymall>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1902-1GB30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1902-1GB30>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1902-1GB30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1902-1GB30&lang=en)

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