

BUS CABLE, FOR PROFIBUS PREASSEMBLED  
 BOTH SIDES 2 X M12 ANGLED 5-CORE, SHIELDED  
 LENGTH 10M, B CODED



General technical data:

<b>Product description</b>		M12 plug, angled on M12 socket angled
<b>Cable length</b>	m	10
<b>Cable designation</b>		BUS: 1P24-19/2,55 02YS(ST)C11Y

General technical data:

<b>Ampacity per pin maximum</b>	A	4
<b>Operating voltage</b>		
• for DC maximum	V	60
• with AC maximum	V	60
<b>Surge voltage resistance Rated value</b>	kV	1.5
<b>Impedance</b>		
• at 9.6 kHz	$\Omega$	300
• at 38.4 kHz	$\Omega$	185
• at 3 MHz ... 20 MHz	$\Omega$	150
<b>Symmetrical tolerance of wave impedance</b>		
• at 38.4 kHz	$\Omega$	20
• at 3 MHz ... 20 MHz	$\Omega$	15
<b>Damping ratio per length</b>		
• 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:

<b>Connector type</b>		Plug/socket
-----------------------	--	-------------

<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>		populated on both sides

#### 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>		
• CSA-approval		Yes
• RoHS conformity		Yes
• UL approval		No
• CCC		No
• IEC certificate		No

- cUL approval
- C-Tick

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=3RK19021NC10>

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

<http://support.automation.siemens.com/WW/view/en/3RK19021NC10/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RK19021NC10&lang=en>

last modified:

09.03.2015