

BUS CABLE, FOR PROFIBUS PREASSEMBLED
 BOTH SIDES 2 X M12 ANGLED 2-CORE, SHIELDED
 LENGTH 3,0M, B CODED



General technical data:

Product description		M12 plug, angled on M12 socket angled
Cable length	m	3
Cable designation		BUS: 1P24-19/2,55 02YS(ST)C11Y

General technical data:

Ampacity per pin maximum	A	4
Operating voltage		
• for DC maximum	V	60
• with 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
Damping ratio 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
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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 ²	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		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=3RK19021NB30>

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

<http://support.automation.siemens.com/WW/view/en/3RK19021NB30/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RK19021NB30&lang=en>

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