

BUS CABLE,
FOR PROFIBUS PREASSEMBLED BOTH SIDES 2 X M12
ANGLED 2-CORE,
SHIELDED LENGTH 5,0M, B CODED



General technical data:

Product description		M12 plug, angled on M12 socket angled
Cable length	m	5
Cable designation		BUS: 1P24-19/2,55 02YS(ST)C11Y

General technical details:

Current-carrying capacity / per pin / maximum	A	4
Operational voltage		
• with DC / maximum	V	60
• with AC / maximum	V	60
Impulse voltage resistance / rated value	kV	1.5
Impedance		
• at 9.6 kHz	Ω	300
• at 38.4 kHz	Ω	185
• for frequency range 3 MHz ... 20 MHz	Ω	150
Symmetrical tolerance of surge 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
- at 16 MHz / maximum

dB/km	26
dB/km	52

Mechanical data:

Connector type		Plug/socket
Connector coding / of M12 circular connector		B
Number of electrical wires		2
Type of cable outlet		angled
Number of poles		2
Color		
• of the cable sheath		Violet
• of the insulation of data wires		Red, green
Material		
• of the cable sheath		polyurethane
• of the wire insulation		Polyethylene
• of the enclosure		Thermoplastic polyurethane
Design of 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 the inner conductor	mm	0.64
• of the cable	mm	7.8
symmetrical tolerance of the outer diameter / of the lead	mm	0.2
Conductor cross section / nominal 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:

Verification of suitability

• CSA-approval	Yes
• RoHS conformity	Yes
• UL-registration	No
• CCC	No
• IEC certificate	No
• cUL approval	No
• C-Tick	No

Further information:

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

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

Industry Mall (Online ordering system)

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

Cax online generator:

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

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

<http://support.automation.siemens.com/WW/view/en/3RK1902-1NB50/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1902-1NB50

last change:

Oct 14, 2013