

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 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		Yes
• CCC		No
• IEC approval		Yes
• cUL approval		No
• C-Tick		No

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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

<http://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, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1902-1NB50&lang=en

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