

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
Damping ratio per length		

- at 9.6 kHz maximum
- at 38.4 kHz maximum
- at 4 MHz maximum
- at 16 MHz maximum

dB/km	3
dB/km	5
dB/km	26
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
- 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,...)

<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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