SIEMENS

Data sheet   **3RK1902-2NB50**
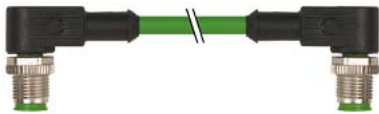
Bus cable for PROFINET assembled on both ends 4-core, shielded assembled with 2 x M12 D-coded, angled Length 5.0 m

General technical data		
product description		M12 plug, angled on M12 plug, angled
wire length	m	5
cable designation		BUS: 2x2xAWG22/7 9YH(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 100 MHz rated value	Ω	100
attenuation factor per length		
● at 4 MHz maximum	dB/m	0.041
● at 10 MHz maximum	dB/m	0.065
● at 16 MHz maximum	dB/m	0.083
● at 100 MHz maximum	dB/m	0.22

Mechanical data		
connector type		Plug / Plug
connector coding of the M12 circular connector		D
number of electrical cores		4
type of cable outlet		angled
number of poles		4
color		
● of cable sheath		green
● of the insulation of data wires		yellow, white, orange, blue
material		
● of cable sheath		Polyurethane
● of the wire insulation		Polonium
● 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	33.5
● with multiple bends minimum permissible	mm	100.5
number of bending cycles		2 000 000
mechanical service life (mating cycles)		100
outer diameter		
● of inner conductor	mm	0.75
● of the cable	mm	6.7

symmetrical tolerance of the outer diameter of the cable	mm	0.2
conductor cross section rated value	mm²	0.34
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		No
● RoHS conformity		Yes
● UL approval		No
● 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=3RK1902-2NB50
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1902-2NB50
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK1902-2NB50
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1902-2NB50&lang=en

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