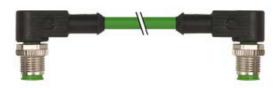
SIEMENS

Data sheet 3RK1902-2NB50

BUS CABLE FOR PROFINET PREASSEMBLED BOTH SIDES 4 CORE, SHIELDED PREASSEMBLED WITH 2X M12 D CODED, ANGLED LENTH 5,0M



General technical data:		
Product description		M12 plug, angled on M12 socket angled
Cable length	m	5
Cable designation		BUS: 2x2xAWG22/7 9YH(ST)C11Y

General technical data:		
Ampacity per pin maximum	Α	4
Operating voltage		
• for DC maximum	V	60
• with AC maximum	V	60
Surge voltage resistance Rated value	kV	1.5
Impedance		
• at 100 MHz Rated value	Ω	100
Damping ratio per length		
• at 4 MHz maximum	dB/km	40.5
• at 10 MHz maximum	dB/m	0.065
• at 16 MHz maximum	dB/km	82.5
• 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 of the insulation of data wires Material of cable sheath of the wire insulation of the enclosure Design of the shield Type of strain relief Bending radius with single bend minimum permissible with multiple bends minimum permissible with multiple bends minimum permissible with multiple tife (mating cycles) Number of bending cycles Mechanical service life (mating cycles) Outer diameter of inner conductor of the cable Symmetrical tolerance of the outer diameter of the cable Conductor cross section Rated value middle polyurethane Polonium Polonium Shielding braid of tinned copper wire molded Shielding braid of tinned copper wire molded Baterian Polonium 100.5 Shielding braid of tinned copper wire molded Baterian 100.5 100.5 100 Outer diameter Outer dia			
Material of cable sheath of the wire insulation of the enclosure Design of the shield Type of strain relief Bending radius of with single bend minimum permissible of with multiple bends minimum permissible Mechanical service life (mating cycles) Outer diameter of the cable Shielding braid of tinned copper wire molded Shielding braid of tinned copper wire molded 33.5 mm 100.5 Number of bending cycles 100 0.75 6.7 Symmetrical tolerance of the outer diameter of the cable mm 0.2	of cable sheath		green
 of cable sheath of the wire insulation of the enclosure Design of the shield Type of strain relief Bending radius with single bend minimum permissible with multiple bends minimum permissible with multiple bends minimum permissible Mumber of bending cycles Mechanical service life (mating cycles) Outer diameter of inner conductor of the cable Symmetrical tolerance of the outer diameter of the cable 	 of the insulation of data wires 		yellow, white, orange, blue
 of the wire insulation of the enclosure Design of the shield Type of strain relief Bending radius with single bend minimum permissible with multiple bends minimum permissible with multiple bends minimum permissible Number of bending cycles Mechanical service life (mating cycles) Outer diameter of inner conductor of the cable Symmetrical tolerance of the outer diameter of the cable 	Material		
of the enclosure Design of the shield Type of strain relief Bending radius with single bend minimum permissible with multiple bends minimum permissible Number of bending cycles Mechanical service life (mating cycles) Outer diameter of inner conductor of the cable Symmetrical tolerance of the outer diameter of the cable Thermoplastic polyurethane Shielding braid of tinned copper wire molded 33.5 mm 33.5 mm 100.5 Value (and in an	• of cable sheath		polyurethane
Design of the shield Type of strain relief Bending radius • with single bend minimum permissible • with multiple bends minimum permissible Number of bending cycles Mechanical service life (mating cycles) Outer diameter • of inner conductor • of the cable Shielding braid of tinned copper wire molded mm 33.5 mm 100.5 2 000 000 100 0.75 mm 0.75 • of the cable Symmetrical tolerance of the outer diameter of the cable	• of the wire insulation		Polonium
Type of strain relief 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	• of the enclosure		Thermoplastic polyurethane
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	Design of the shield		Shielding braid of tinned copper wire
 with single bend minimum permissible with multiple bends minimum permissible Number of bending cycles 2 000 000 Mechanical service life (mating cycles) Outer diameter of inner conductor of the cable Symmetrical tolerance of the outer diameter of the cable mm 0.2 	Type of strain relief		molded
 with multiple bends minimum permissible Number of bending cycles Mechanical service life (mating cycles) Outer diameter of inner conductor of the cable Symmetrical tolerance of the outer diameter of the cable mm 0.2 	Bending radius		
Number of bending cycles Mechanical service life (mating cycles) Outer diameter of inner conductor of the cable Symmetrical tolerance of the outer diameter of the cable 0.2 0.2	 with single bend minimum permissible 	mm	33.5
Mechanical service life (mating cycles) Outer diameter of inner conductor of the cable Symmetrical tolerance of the outer diameter of the cable mm 0.75 mm 6.7 Symmetrical tolerance of the outer diameter of the cable	 with multiple bends minimum permissible 	mm	100.5
Outer diameter • of inner conductor • of the cable Symmetrical tolerance of the outer diameter of the cable mm 0.75 mm 6.7 Symmetrical tolerance of the outer diameter of the cable	Number of bending cycles		2 000 000
● of inner conductor ■ of the cable Symmetrical tolerance of the outer diameter of the cable mm 0.75 mm 6.7 mm 0.2	Mechanical service life (mating cycles)		100
● of the cable mm 6.7 Symmetrical tolerance of the outer diameter of the cable mm 0.2 cable	Outer diameter		
Symmetrical tolerance of the outer diameter of the cable 0.2	• of inner conductor	mm	0.75
cable	• of the cable	mm	6.7
	Symmetrical tolerance of the outer diameter of the	mm	0.2
Conductor cross section Rated value mm ² 0.34	cable		
	Conductor cross section Rated value	mm²	0.34
Type of plug interlock M12 x 1 thread	Type of plug interlock		M12 x 1 thread
Cable end components populated on both sides	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	No	
• C-Tick	No	

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=3RK19022NB50

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RK19022NB50/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RK19022NB50&lang=en

last modified: 09.03.2015