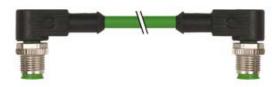
## **SIEMENS**

Data sheet 3RK1902-2NC10

BUS CABLE FOR PROFINET PREASSEMBLED BOTH SIDES 4 CORE, SHIELDED PREASSEMBLED WITH 2X M12 D CODED, ANGLED LENTH 10M



General technical data:			
Product description		M12 plug, angled on M12 socket angled	
Cable length	m	10	
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	<ul><li>of cable sheath</li></ul>		green
<ul> <li>of cable sheath</li> <li>of the wire insulation</li> <li>of the enclosure</li> <li>Design of the shield</li> <li>Type of strain relief</li> <li>Bending radius</li> <li>with single bend minimum permissible</li> <li>with multiple bends minimum permissible</li> <li>with multiple bends minimum permissible</li> <li>Mumber of bending cycles</li> <li>Mechanical service life (mating cycles)</li> <li>Outer diameter</li> <li>of inner conductor</li> <li>of the cable</li> <li>Symmetrical tolerance of the outer diameter of the cable</li> </ul>	<ul> <li>of the insulation of data wires</li> </ul>		yellow, white, orange, blue
<ul> <li>of the wire insulation</li> <li>of the enclosure</li> <li>Design of the shield</li> <li>Type of strain relief</li> <li>Bending radius</li> <li>with single bend minimum permissible</li> <li>with multiple bends minimum permissible</li> <li>with multiple bends minimum permissible</li> <li>Number of bending cycles</li> <li>Mechanical service life (mating cycles)</li> <li>Outer diameter</li> <li>of inner conductor</li> <li>of the cable</li> <li>Symmetrical tolerance of the outer diameter of the cable</li> </ul>	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
<ul> <li>with single bend minimum permissible</li> <li>with multiple bends minimum permissible</li> <li>Number of bending cycles</li> <li>2 000 000</li> <li>Mechanical service life (mating cycles)</li> <li>Outer diameter</li> <li>of inner conductor</li> <li>of the cable</li> <li>Symmetrical tolerance of the outer diameter of the cable</li> <li>mm</li> <li>0.2</li> </ul>	Type of strain relief		molded
<ul> <li>with multiple bends minimum permissible</li> <li>Number of bending cycles</li> <li>Mechanical service life (mating cycles)</li> <li>Outer diameter</li> <li>of inner conductor</li> <li>of the cable</li> <li>Symmetrical tolerance of the outer diameter of the cable</li> <li>mm</li> <li>0.2</li> </ul>	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	<ul> <li>with single bend minimum permissible</li> </ul>	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	<ul> <li>with multiple bends minimum permissible</li> </ul>	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 <sup>2</sup> 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		
<ul><li>CSA-approval</li></ul>	Yes	
<ul> <li>RoHS conformity</li> </ul>	Yes	
UL approval	No	
• CCC	No	
IEC certificate	No	
• cUL approval	No	
• C-Tick	No	

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