

2.3 CAN bus / DeviceNet cable

2.3.1 Order data

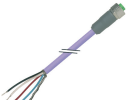
Length	Short description, model number					
	CAN bus / DeviceNet connection cable		CAN bus / DeviceNet attachment cable		CAN bus / DeviceNet open cable	
0.2 m		X67CA0C12.0020				
2.0 m	X67CA0C02.0020	X67CA0C12.0050			X67CA0C42.0020	X67CA0C52.0020
5.0 m	X67CA0C02.0050		X67CA0C22.0050	X67CA0C32.0050	X67CA0C42.0050	X67CA0C52.0050
10.0 m	X67CA0C02.0100	X67CA0C12.0100				
15.0 m	X67CA0C02.0150	X67CA0C12.0150	X67CA0C22.0150	X67CA0C32.0150		
50.0 m			X67CA0C22.0500	X67CA0C32.0500		
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Table 511: X67CA0Cxx CAN-Bus / DeviceNet cable - Order data

2.3.2 Technical data

Product ID	CAN bus / DeviceNet cable	
General information	Supply lines	Data cables
Cable cross section mm² AWG	2 x 0.34 mm² 2 x 22 AWG	2 x 0.25 mm² 2 x 24 AWG
Durability	Good chemical and oil resistance Flame resistant according to IEC 332.1	
Lines (wires)		
Signal lines	0.34 mm² (22 AWG), tinned Cu wire	0.25 mm² (24 AWG), tinned Cu wire
Wire insulation	PE	Cell PE
Wire colors	Red, black	Light blue, white
Cable structure		
Signal lines Stranding Shield	Twisted pair wires Paired shield with aluminum foil	Twisted pair wires Paired shield with aluminum foil
Cable stranding	With additional wire 22 AWG/19	
Entire shielding	Tinned Cu filaments	
Outer sheathing Material Characteristics Color Labeling	PUR mixture Halogen-free Purple B&R X67CA0Xxx.xxxx	
Electrical characteristics		
Conductor resistance (loop)	<180 Ω/km at 20°C	
Degree of insulation	Category II according to IEC 60664-1	
Installed voltage	Max. 125 V AC/DC	
Rated current	Max. 4 A / contact	
Mechanical characteristics		
Protection type - plug/coupling	IP67, only when screwed in	
Temperature range With fixed installation With flexible installation	-25 to +80°C -20 to +80°C	
Outer diameter	6.9 mm ± 0.2 mm	
Flex radius With fixed installation With flexible installation	≥7.5 x outer diameter 7.0 mm ≥15 x outer diameter 7.0 mm	
Drag chain data Speed Acceleration Flex cycles	Max. 3 m/s Max. 7 m/s² -	

Table 512: X67CA0Xxx CAN-Bus / DeviceNet cable - Technical data

2.3.3 X67CA0C02.xxxx

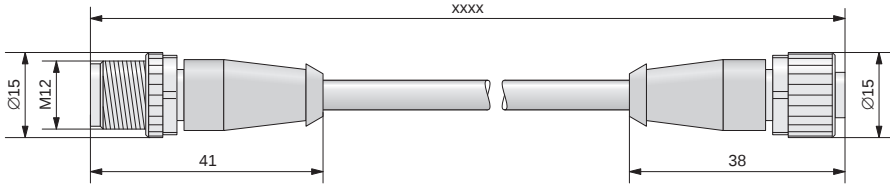
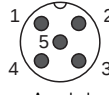
Dimensions				
				
Pin assignments				
Plugs	Pin	Name	Wire colors	Socket
 A-coded	1	SHLD	Tracer wire / Shield	 A-coded
	2	V+	Red	
	3	CAN GND	Black	
	4	CAN_H	White	
	5	CAN_L	Light blue	

Table 513: X67CA0C02 CAN-Bus / DeviceNet connection cable - Measurements and pin assignments

Cable lengths			
Model number	Standard length [dm]	Actual length [cm]	Tolerance [cm]
X67CA0C02.0002	2	20	+2
X67CA0C02.0010	10	100	+2
X67CA0C02.0020	20	200	+5
X67CA0C02.0050	50	500	+10
X67CA0C02.0100	100	1000	+10
X67CA0C02.0150	150	1500	+10

Table 514: X67CA0C02 CAN-Bus / DeviceNet connection cable - Cable lengths

2.3.4 X67CA0C12.xxxx

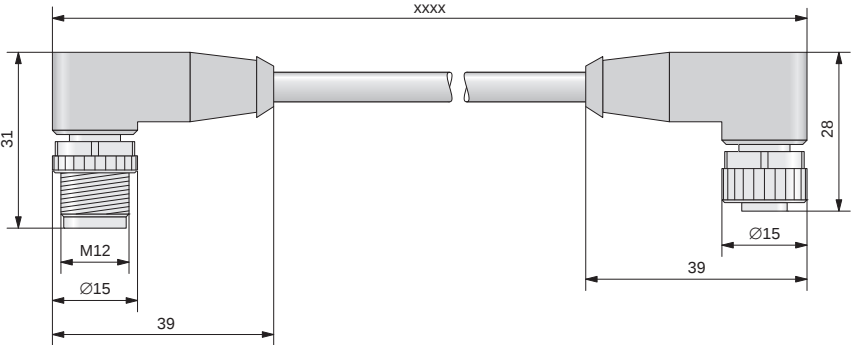
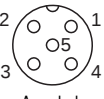
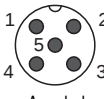
Dimensions				
				
Pin assignments				
Plugs	Pin	Name	Wire colors	Socket
 A-coded	1	SHLD	Tracer wire / Shield	 A-coded
	2	V+	Red	
	3	CAN GND	Black	
	4	CAN_H	White	
	5	CAN_L	Light blue	

Table 515: X67CA0C12 CAN-Bus / DeviceNet connection cable - Measurements and pin assignments

Cable lengths			
Model number	Standard length [dm]	Actual length [cm]	Tolerance [cm]
X67CA0C12.0020	20	200	+5
X67CA0C12.0050	50	500	+10
X67CA0C12.0100	100	1000	+10
X67CA0C12.0150	150	1500	+10

Table 516: X67CA0C12 CAN-Bus / DeviceNet connection cable - Cable lengths

2.3.5 X67CA0C22.xxxx

Dimensions				
Pin assignments				
Socket	Pin	Name	Wire colors	Open
A-coded	1	SHLD	Tracer wire / Shield	For custom wiring
	2	V+	Red	
	3	CAN GND	Black	
	4	CAN_H	White	
	5	CAN_L	Light blue	

Table 517: X67CA0C22 CAN-Bus / DeviceNet attachment cable - Measurements and pin assignments

Cable lengths			
Model number	Standard length [dm]	Actual length [cm]	Tolerance [cm]
X67CA0C22.0050	50	500	+10
X67CA0C22.0150	150	1500	+10
X67CA0C22.0500	500	5000	+10

Table 518: X67CA0C22 CAN-Bus / DeviceNet connection cable - Cable lengths

2.3.6 X67CA0C32.xxxx

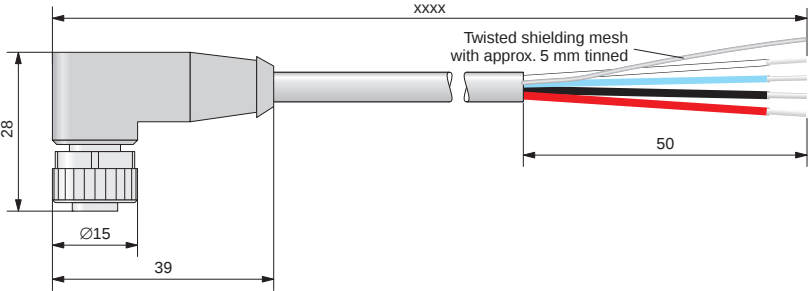
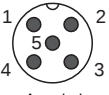
Dimensions				
				
Pin assignments				
Socket	Pin	Name	Wire colors	Open
 A-coded	1	SHLD	Tracer wire / Shield	For custom wiring
	2	V+	Red	
	3	CAN GND	Black	
	4	CAN_H	White	
	5	CAN_L	Light blue	

Table 519: X67CA0C32 CAN-Bus / DeviceNet attachment cable - Measurements and pin assignments

Cable lengths			
Model number	Standard length [dm]	Actual length [cm]	Tolerance [cm]
X67CA0C32.0050	50	500	+10
X67CA0C32.0150	150	1500	+10
X67CA0C32.0500	500	5000	+10

Table 520: X67CA0C32 CAN-Bus / DeviceNet connection cable - Cable lengths

2.3.7 X67CA0C42.xxxx

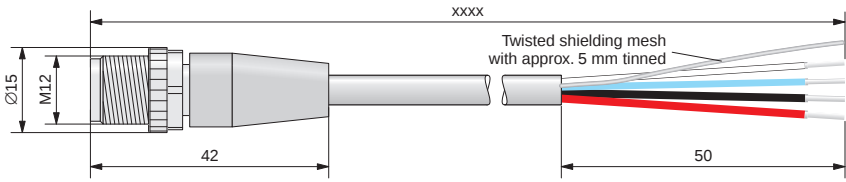
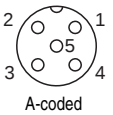
Dimensions				
				
Pin assignments				
Plugs	Pin	Name	Wire colors	Open
 A-coded	1	SHLD	Tracer wire / Shield	For custom wiring
	2	V+	Red	
	3	CAN GND	Black	
	4	CAN_H	White	
	5	CAN_L	Light blue	

Table 521: X67CA0C42 CAN-Bus / DeviceNet open cable - Measurements and pin assignments

Cable lengths			
Model number	Standard length [dm]	Actual length [cm]	Tolerance [cm]
X67CA0C42.0020	20	200	+10
X67CA0C42.0050	50	500	+10

Table 522: X67CA0C42 CAN-Bus / DeviceNet open cable - Cable lengths

2.3.8 X67CA0C52.xxxx

Dimensions				
Pin assignments				
Plugs	Pin	Name	Wire colors	Open
A-coded	1	SHLD	Tracer wire / Shield	For custom wiring
	2	V+	Red	
	3	CAN GND	Black	
	4	CAN_H	White	
	5	CAN_L	Light blue	

Table 523: X67CA0C52 CAN-Bus / DeviceNet open cable - Measurements and pin assignments

Cable lengths			
Model number	Standard length [dm]	Actual length [cm]	Tolerance [cm]
X67CA0C52.0020	20	200	+10
X67CA0C52.0050	50	500	+10

Table 524: X67CA0C52 CAN-Bus / DeviceNet open cable - Cable lengths