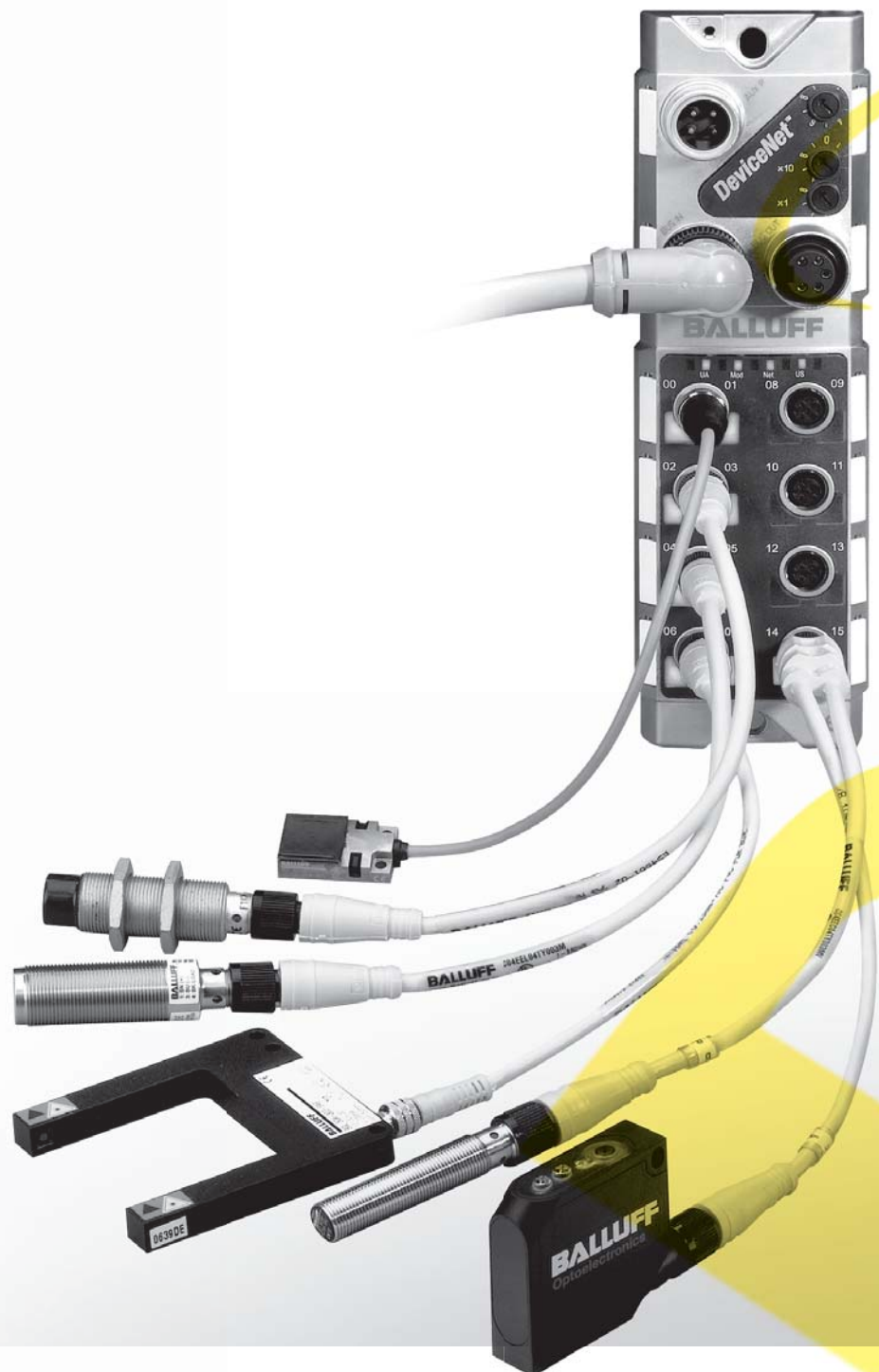


For a simple choice of outstanding network components, Balluff offers the entire spectrum of high-performance network technology. For applications in the USA, such as with Rockwell Automation and other controller manufacturers, you will find all modules for efficient DeviceNet installation at Balluff. For simple installation, speedy integration through direct mounting as well as the possibility of fast modifications irrespective of the controller manufacturer. You save time, resulting in lower costs.

Choose an efficient field and process combination with Balluff. Because with Balluff, you select the DeviceNet components you need regardless of the controller manufacturer: from the extensive and well engineered line of networking and connectivity products that leave nothing to be desired outside of the switching cabinet.





<b>Product topology</b>	58
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# DeviceNet

## Product topology

### The best I/O modules in the industry

Impressive features. Impressive functionality.  
Impressive performance.

#### Clearly visible status LEDs

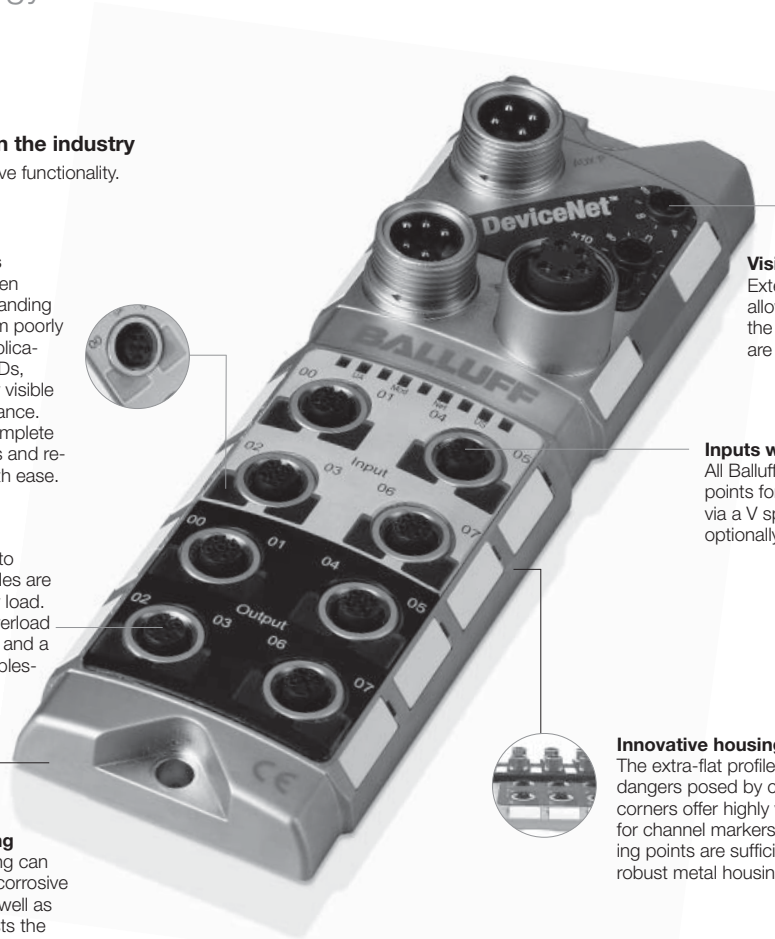
Low-quality LEDs that are often difficult to identify under demanding production conditions perform poorly when used in high-speed applications. Unlike Balluff status LEDs, which are large, bright, highly visible and provide maximum assistance. Balluff quality will help you complete setup and maintenance tasks and reduce machine downtimes with ease.

#### Powerful and safe outputs

With an output current of up to **2 amps**, Balluff output modules are capable of driving almost any load. Each output also offers an overload protection with LED indicator and a memory feature for easy troubleshooting.

#### Robust, solid metal housing

The fully encapsulated housing can withstand impacts, shaking, corrosive fluids, incorrect assembly as well as people treading on it and costs the same as a plastic housing.



#### Visible setup switches

External rotary selector switches allow you to adjust the baud rate of the module in seconds. Downloads are not necessary.

#### Inputs with high density

All Balluff input blocks offer two input points for each connector, accessed via a V splitter. A Desina output is also optionally available via pin 2.

#### Innovative housing design

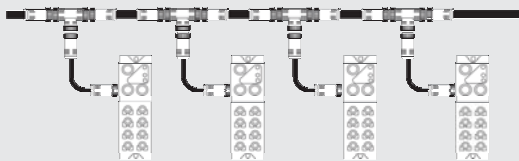
The extra-flat profile reduces potential dangers posed by cables. Rounded corners offer highly visible locations for channel markers and two mounting points are sufficient to secure the robust metal housing.

### DeviceNet™ system concept from Balluff

Machine design should not be restricted by an inflexible network topology. Balluff DeviceNet™ products comprise cables, tees and hubs that you can use to combine elements of all topologies with one another. Flexible installation is ensured by raw cables, single-ended cables and color-coded, field-attachable connectors.

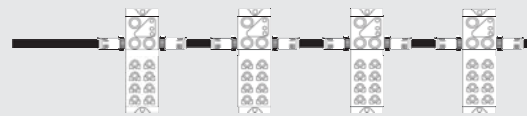
#### Trunk and drop

- Very simple troubleshooting
- A single device can be disconnected without disrupting the network
- Extra cable requirements result in higher costs



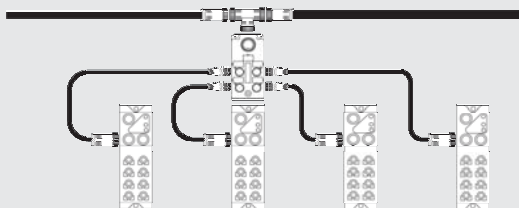
#### Connected in series

- Difficult troubleshooting
- Disconnecting a device interrupts the network
- Lower costs due to fewer cabling components



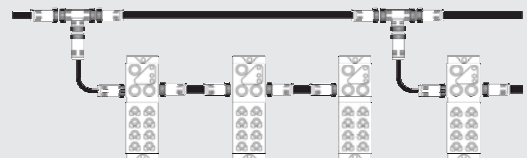
#### Star

- Simple troubleshooting
- Ideal for large I/O clusters
- Less expensive – only one splitter box needed



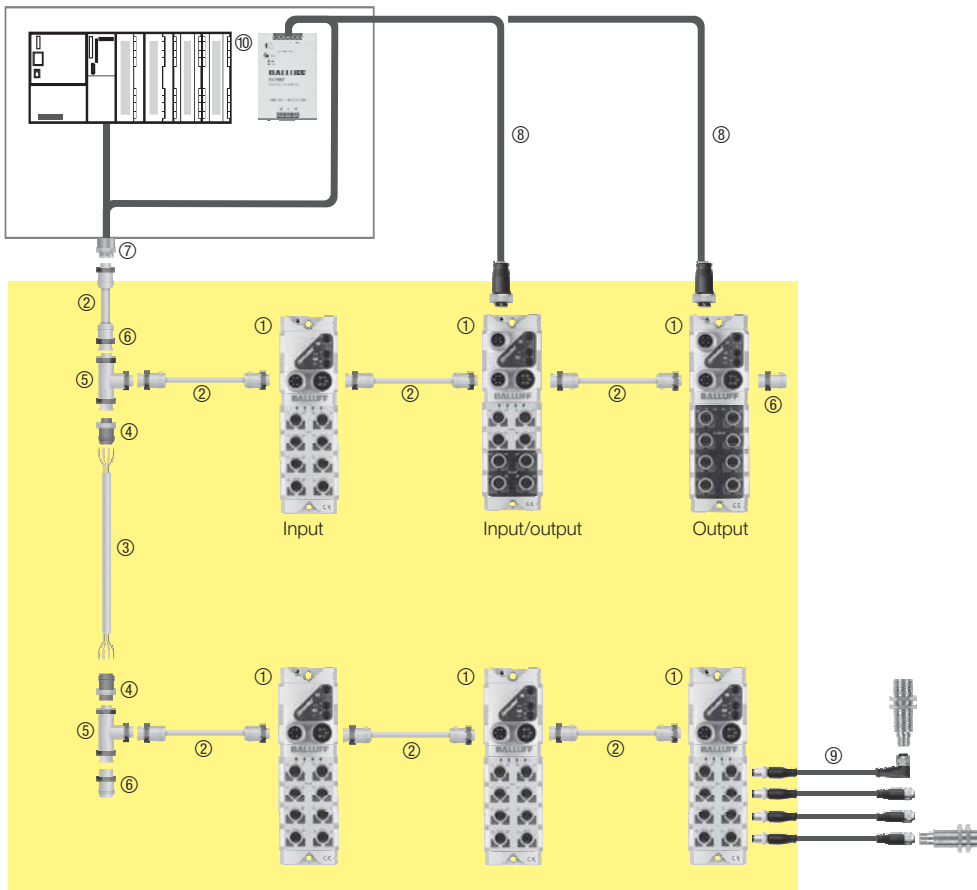
#### Mixed topology

- Creation of logical groups results in relatively simple troubleshooting
- Popular method – ideal cost/benefit ratio



## Complete DeviceNet™ product matrix

Precisely adapted cables and accessory parts are required to maximize utilization of the I/O blocks. Balluff offers all the components you need for constructing and maintaining a world-class DeviceNet™ network.



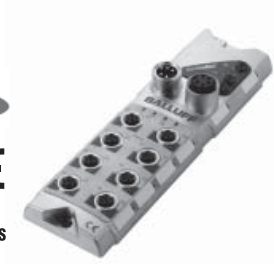
- |                                   |              |
|-----------------------------------|--------------|
| ① DeviceNet modules               | Page 60      |
| ② Bus cables                      | Page 64      |
| ③ Network cables                  |              |
| ④ Field attachable bus connectors | Pages 74, 80 |
| ⑤ Bus tee                         | Page 73      |
| ⑥ Bus terminating resistors       | Page 72      |
| ⑦ Bus device connectors           | Page 75      |
| ⑧ Power cables                    | Page 76      |
| ⑩ BCC connection cables           | Page 246     |
| ⑪ BAE power supplies              | Page 274     |



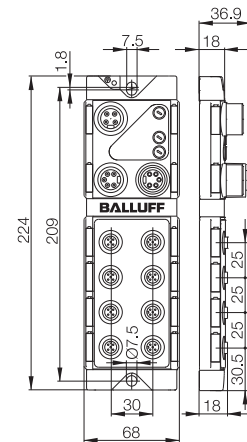
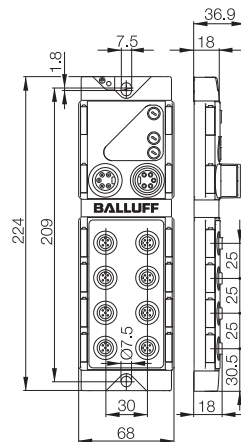
### Product topology

- Modules
- Bitmaps
- Bus cables
- Single-ended bus cables and bus connection cables
- Bus terminating resistors
- Bus tee
- Bus device connectors
- Bus connectors
- Power cables
- Accessories
- Analyzer

**more added value**  
Rugged and reliable!



Splitter boxes	<b>BNI-DNT-104-...</b>	<b>BNI-DNT-202-...</b>	
Version	16 inputs	8 inputs	
Interface	DeviceNet	DeviceNet	
<b>Ordering code</b>	<b>BNI0001</b>	<b>BNI0002</b>	
Part number	BNI-DNT-104-000-Z004	BNI-DNT-202-000-Z005	
Power supply $U_B$	18...30 V DC	18...30 V DC	
Net function indicator	Green LED	Green LED	
Fault function indicator	Red LED	Red LED	
Power indicator	Module	Module, actuators	
Connection: Fieldbus	7/8" 5-pin female and male	7/8" 5-pin female and male	
Connection: operating voltage		7/8" 4-pin male	
Connection: I/O ports	M12, A-coded, male	M12, A-coded, male	
No. of I/O ports	8	8	
No. of inputs	16		
No. of outputs		8	
Configurable	No	No	
Max. load current sensors/channel	200 mA		
Max. output load current		2 A	
Port status indicator (signal status)	Green LED	Green LED	
Port diagnostic indicator (overload)	Red LED	Red LED	
Total current $U_{Actuator}$		< 9 A	
Total current $U_{Sensor}$	< 9 A	< 9 A	
Degree of protection as per IEC 60529	IP 67 (when connected)	IP 67 (when connected)	
Operating temperature $T_a$	-5...+55 °C	-5...+55 °C	
Storage temperature range	-25...+85 °C	-25...+85 °C	
Weight	Approx. 580 g	Approx. 580 g	
Mounting	2 mounting holes	2 mounting holes	
Dimensions (LxWxH)	225x68x36.9 mm	225x68x36.9 mm	
Housing material	Nickel-plated Gd-Zn	Nickel-plated Gd-Zn	



All modules include  
4 screw plugs  
and 1 label set.



<b>BNI-DNT-302-...</b>	<b>BNI-DNT-305-...</b>
16 inputs, 16 outputs	8 inputs, 8 outputs
DeviceNet	DeviceNet
<b>BNI0003</b>	<b>BNI0004</b>
BNI-DNT-302-000-Z005	BNI-DNT-305-000-Z005
18...30 V DC	18...30 V DC
Green LED	Green LED
Red LED	Red LED
Module, sensors, actuators	Module, actuators
7/8" 5-pin female and male	7/8" 5-pin female and male
7/8" 4-pin male	7/8" 4-pin male
M12, A-coded, male	M12, A-coded, male
8	8
16	8
16	8
Yes	No
200 mA	200 mA
2 A	2 A
Green LED	Green LED
Red LED	Red LED
< 9 A	< 9 A
< 9 A	< 9 A
IP 67 (when connected)	IP 67 (when connected)
-5...+55 °C	-5...+55 °C
-25...+85 °C	-25...+85 °C
Approx. 580 g	Approx. 580 g
2 mounting holes	2 mounting holes
225x68x36.9 mm	225x68x36.9 mm
Nickel-plated Gd-Zn	Nickel-plated Gd-Zn

### BNI DNT-104-000-Z004

- 16 PNP inputs on 8 connections powered by the DeviceNet™ network
- Short-circuit protected
- Short-circuit diagnostics
- I/O size: 4-byte input, 0-byte output

### BNI DNT-202-000-Z005

- 8 sourcing outputs supplied via auxiliary power source
- Rated output current 2 A
- Resettable, point-level, latching overload diagnostics
- I/O size: 3-byte input, 2-byte output

### BNI DNT-302-000-Z006

- 16 points configured as PNP inputs or sourcing outputs
- Inputs and outputs powered via auxiliary power source
- Rated output current 1.6 A
- Short circuit at point level and resettable overload diagnostics
- I/O size: 7-byte input, 4-byte output

### BNI DNT-305-000-Z005

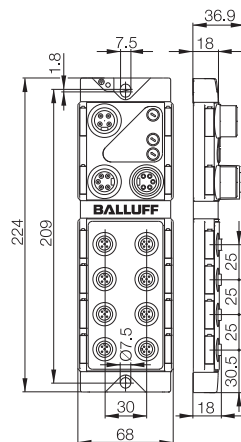
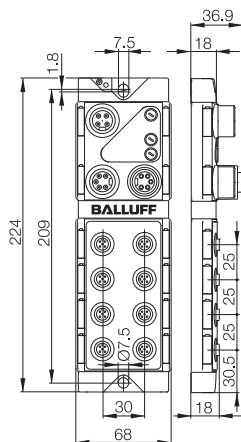
- 8 PNP inputs and 8 sourcing outputs
- Inputs and outputs powered via auxiliary power source
- Rated output current 1.6 A
- Short circuit at point level and resettable overload diagnostics
- I/O size: 5-byte input, 2-byte output



Product topology

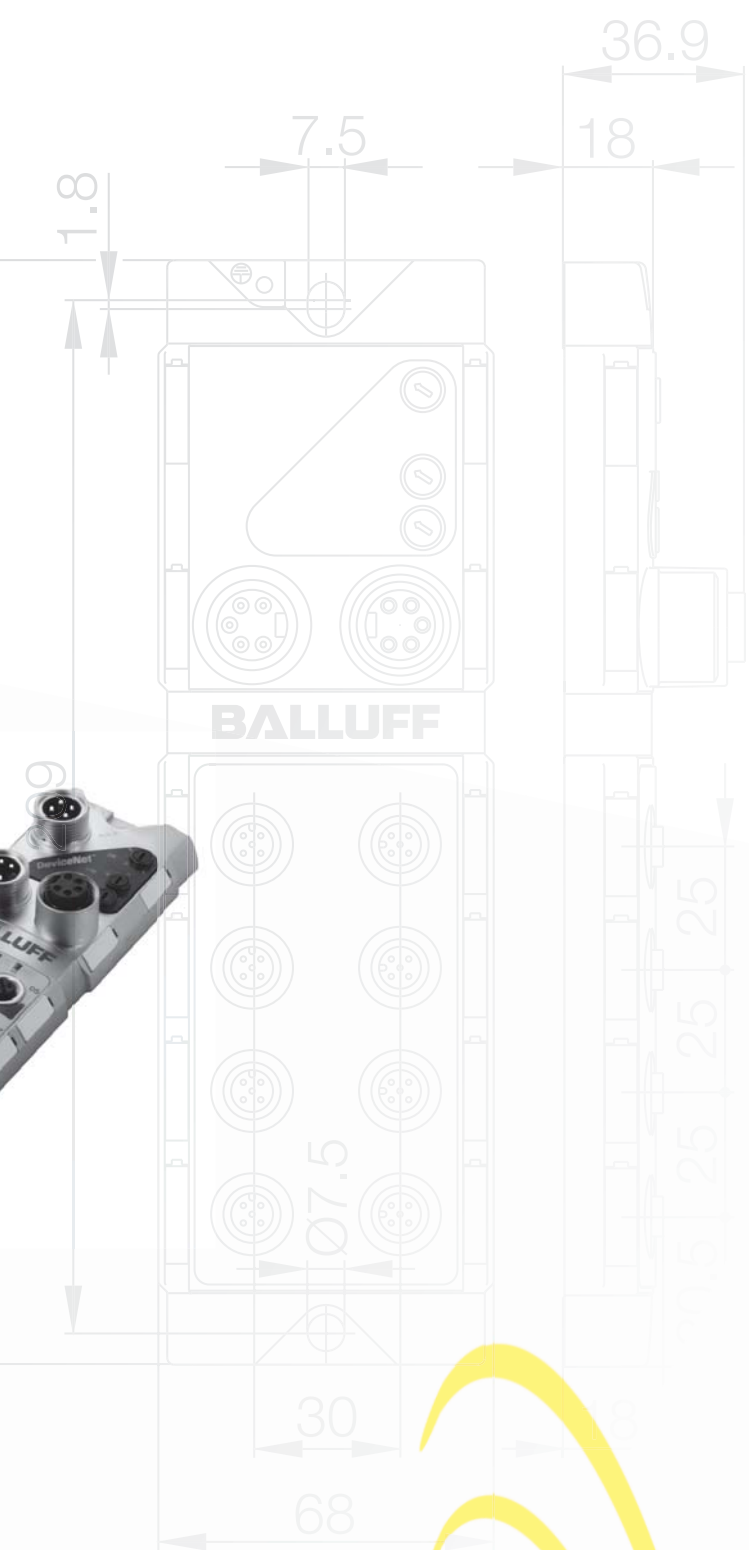
#### Modules

- Bitmaps
- Bus cables
- Single-ended bus cables and bus connection cables
- Bus terminating resistors
- Bus tee
- Bus device connectors
- Bus connectors
- Power cables
- Accessories
- Analyzer





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**DeviceNet™**

### 16 inputs (4 bytes in, 0 bytes out)

		Bit 15	Bit 14	Bit 13	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
IN	Word 0	I-15	I-14	I-13	I-12	I-11	I-10	I-9	I-8	I-7	I-6	I-5	I-4	I-3	I-2	I-1	I-0
	Word 1	S-15	S-14	S-13	S-12	S-11	S-10	S-9	S-8	S-7	S-6	S-5	S-4	S-3	S-2	S-1	S-0

Bitmap legend	
I	Input
O	Output
R	Output reset
S	Input short-circuit
OL	Output overload status
HS	Output handshake
AP	Actuator power status
SP	Sensor/network power status

### 8 outputs (3 bytes in, 2 bytes out)

		Bit 15	Bit 14	Bit 13	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
IN	Word 0	OL-7	OL-6	OL-5	OL-4	OL-3	OL-2	OL-1	OL-0	HS-7	HS-6	HS-5	HS-4	HS-3	HS-2	HS-1	HS-0
	Word 1																AP
OUT	Word 0	R-7	R-6	R-5	R-4	R-3	R-2	R-1	R-0	O-7	O-6	O-5	O-4	O-3	O-2	O-1	O-0

### 16 configurable (7 bytes in, 4 bytes out)

		Bit 15	Bit 14	Bit 13	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
IN	Word 0	I-15	I-14	I-13	I-12	I-11	I-10	I-9	I-8	I-7	I-6	I-5	I-4	I-3	I-2	I-1	I-0
	Word 1	S-15	S-14	S-13	S-12	S-11	S-10	S-9	S-8	S-7	S-6	S-5	S-4	S-3	S-2	S-1	S-0
	Word 2	OL-15	OL-14	OL-13	OL-12	OL-11	OL-10	OL-9	OL-8	OL-7	OL-6	OL-5	OL-4	OL-3	OL-2	OL-1	OL-0
	Word 3															SP	AP
OUT	Word 0	O-15	O-14	O-13	O-12	O-11	O-10	O-9	O-8	O-7	O-6	O-5	O-4	O-3	O-2	O-1	O-0
	Word 1	R-15	R-14	R-13	R-12	R-11	R-10	R-9	R-8	R-7	R-6	R-5	R-4	R-3	R-2	R-1	R-0

### 8 inputs/8 outputs (5 bytes in, 2 bytes out)

		Bit 15	Bit 14	Bit 13	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
IN	Word 0	S-7	S-6	S-5	S-4	S-3	S-2	S-1	S-0	I-7	I-6	I-5	I-4	I-3	I-2	I-1	I-0
	Word 1	OL-7	OL-6	OL-5	OL-4	OL-3	OL-2	OL-1	OL-0	HS-7	HS-6	HS-5	HS-4	HS-3	HS-2	HS-1	HS-0
	Word 2															SP	AP
OUT	Word 0	R-7	R-6	R-5	R-4	R-3	R-2	R-1	R-0	O-7	O-6	O-5	O-4	O-3	O-2	O-1	O-0



Product topology

#### Modules

#### Bitmaps

- Bus cables
- Single-ended bus cables and bus connection cables
- Bus terminating resistors
- Bus tee
- Bus device connectors
- Bus connectors
- Power cables
- Accessories
- Analyzer



# DeviceNet

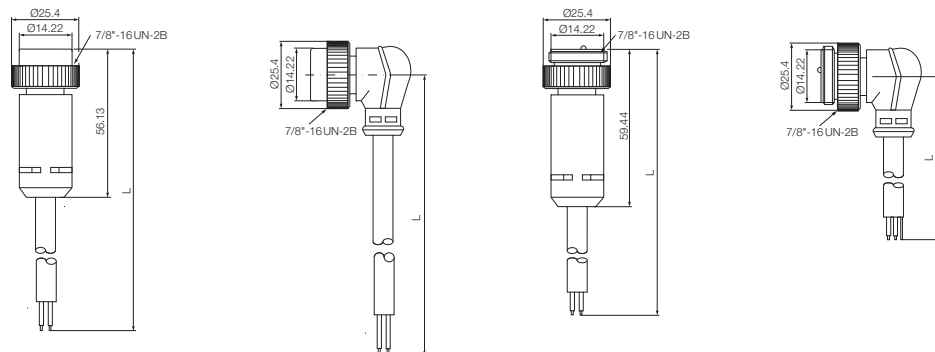
Bus cables 7/8", 5-pin, **thick**, mini

Transfer rate	Cable	
	thick	thin
125 kbs baud rate	500 m	100 m
250 kbs baud rate	250 m	100 m
500 kbs baud rate	100 m	100 m



View of female/ male side				
Connector	Mini size 7/8"	Mini size 7/8"	Mini size 7/8"	Mini size 7/8"
Version	Standard 5-pin DN	Standard 5-pin DN	Standard 5-pin DN	Standard 5-pin DN
Configuration	Straight female	Right-angle female	Straight male	Right-angle male
Nominal voltage	300 V	300 V	300 V	300 V
Current rating	8 A	8 A	8 A	8 A
Cross-section	15 AWG	15 AWG	15 AWG	15 AWG
Cable	PVC	PVC	PVC	PVC
Knurled ring	Epoxide-coated zinc	Epoxide-coated zinc	Epoxide-coated zinc	Epoxide-coated zinc
Cable diameter, thick	12.07 mm	12.07 mm	12.07 mm	12.07 mm
Degree of protection	IP 68	IP 68	IP 68	IP 68
Ambient temperature range T <sub>a</sub>	-20...+80 °C	-20...+80 °C	-20...+80 °C	-20...+80 °C
Contact-body material	PVC	PVC	PVC	PVC
Housing material	PVC	PVC	PVC	PVC
Contacts	Phosphor-bronze base	Phosphor-bronze base	Phosphor-bronze base	Phosphor-bronze base
Contact surface	Gold plated	Gold plated	Gold plated	Gold plated

Standard lengths	Ordering code			
	Part number			
0.5 m	<b>BCC07KC</b> BDN C-T01-AN-EAN-01-005M	<b>BCC07LE</b> BDN C-T01-BN-EAN-01-005M	<b>BCC07LR</b> BDN C-T01-CN-EAN-01-005M	<b>BCC07M3</b> BDN C-T01-DN-EAN-01-005M
1.0 m	<b>BCC07KE</b> BDN C-T01-AN-EAN-01-010M	<b>BCC07LF</b> BDN C-T01-BN-EAN-01-010M	<b>BCC07LT</b> BDN C-T01-CN-EAN-01-010M	<b>BCC07M4</b> BDN C-T01-DN-EAN-01-010M
3.0 m	<b>BCC07KF</b> BDN C-T01-AN-EAN-01-030M	<b>BCC07LJ</b> BDN C-T01-BN-EAN-01-030M	<b>BCC07LU</b> BDN C-T01-CN-EAN-01-030M	<b>BCC07M6</b> BDN C-T01-DN-EAN-01-030M
6.0 m	<b>BCC07KH</b> BDN C-T01-AN-EAN-01-060M	<b>BCC07LK</b> BDN C-T01-BN-EAN-01-060M	<b>BCC07LY</b> BDN C-T01-CN-EAN-01-060M	<b>BCC07M7</b> BDN C-T01-DN-EAN-01-060M



**more added value**  
Max. length 500 m  
(at 125 kbs baud rate)

# DeviceNet

Bus connection cables 7/8", 5-pin, **thick**, mini

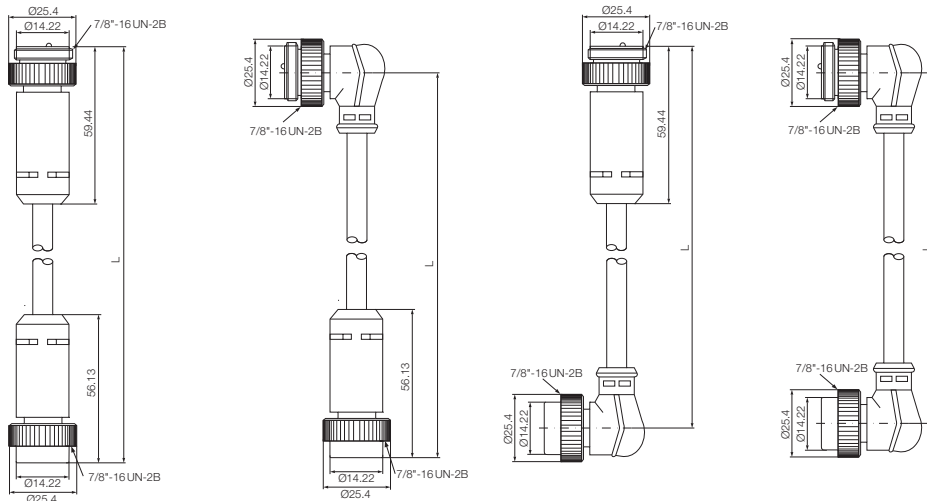


Mini size A 7/8" Standard 5-pin DN Straight female/ straight male 300 V 8 A 15 AWG PVC Epoxide-coated zinc	Mini size A 7/8" Standard 5-pin DN Straight female/ right-angle male 300 V 8 A 15 AWG PVC Epoxide-coated zinc	Mini size A 7/8" Standard 5-pin DN Right-angle female/ straight male 300 V 8 A 15 AWG PVC Epoxide-coated zinc	Mini size A 7/8" Standard 5-pin DN Right-angle female/ right-angle male 300 V 8 A 15 AWG PVC Epoxide-coated zinc
12.07 mm	12.07 mm	12.07 mm	12.07 mm
IP 68	IP 68	IP 68	IP 68
-20...+80 °C	-20...+80 °C	-20...+80 °C	-20...+80 °C
PVC	PVC	PVC	PVC
PVC	PVC	PVC	PVC
Phosphor-bronze base Gold plated	Phosphor-bronze base Gold plated	Phosphor-bronze base Gold plated	Phosphor-bronze base Gold plated



- Product topology
- Modules
- Bitmaps
- Bus cables**
- Single-ended bus cables and bus connection cables
- Bus terminating resistors
- Bus tee
- Bus device connectors
- Bus connectors
- Power cables
- Accessories
- Analyzer

Ordering code			
Part number			
<b>BCC07JJ</b>	<b>BCC07K1</b>	<b>BCC07KP</b>	<b>BCC07L3</b>
BDN C-T01-AC-EAA-01-005M	BDN C-T01-AD-EAA-01-005M	BDN C-T01-BC-EAA-01-005M	BDN C-T01-BD-EAA-01-005M
<b>BCC07JK</b>	<b>BCC07K2</b>	<b>BCC07KR</b>	<b>BCC07L4</b>
BDN C-T01-AC-EAA-01-010M	BDN C-T01-AD-EAA-01-010M	BDN C-T01-BC-EAA-01-010M	BDN C-T01-BD-EAA-01-010M
<b>BCC07JM</b>	<b>BCC07K4</b>	<b>BCC07KU</b>	<b>BCC07L6</b>
BDN C-T01-AC-EAA-01-030M	BDN C-T01-AD-EAA-01-030M	BDN C-T01-BC-EAA-01-030M	BDN C-T01-BD-EAA-01-030M
<b>BCC07JR</b>	<b>BCC07K6</b>	<b>BCC07KY</b>	<b>BCC07L7</b>
BDN C-T01-AC-EAA-01-060M	BDN C-T01-AD-EAA-01-060M	BDN C-T01-BC-EAA-01-060M	BDN C-T01-BD-EAA-01-060M



# DeviceNet

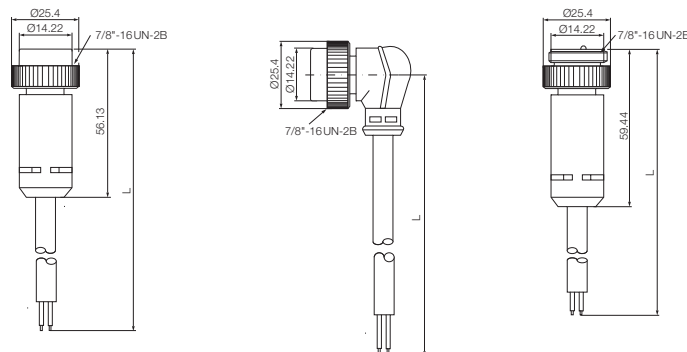
Bus cables 7/8", 5-pin, **thin**, mini

Transfer rate	Cable	
	thick	thin
125 kbs baud rate	500 m	100 m
250 kbs baud rate	250 m	100 m
500 kbs baud rate	100 m	100 m



View of female/ male side	5. CAN_L 1. DRAIN 2. V+ 3. V- 4. CAN_H	1. DRAIN 2. V+ 3. V- 4. CAN_H 5. CAN_L	1. DRAIN 2. V+ 3. V- 4. CAN_H 5. CAN_L	1. DRAIN 2. V+ 3. V- 4. CAN_H 5. CAN_L
Connector	Mini size 7/8"	Mini size 7/8"	Mini size 7/8"	Mini size 7/8"
Version	Standard 5-pin DN	Standard 5-pin DN	Standard 5-pin DN	Standard 5-pin DN
Configuration	Straight female	Right-angle female	Straight male	Right-angle male
Nominal voltage	300 V	300 V	300 V	300 V
Current rating	4 A	4 A	4 A	4 A
Cross-section	22 AWG	22 AWG	22 AWG	22 AWG
Cable	PVC	PVC	PVC	PVC
Knurled ring	Epoxide-coated zinc	Epoxide-coated zinc	Epoxide-coated zinc	Epoxide-coated zinc
Cable diameter, thin	6.86mm	6.86mm	6.86mm	6.86mm
Degree of protection	IP 68	IP 68	IP 68	IP 68
Ambient temperature range T <sub>a</sub>	-20...+80 °C	-20...+80 °C	-20...+80 °C	-20...+80 °C
Contact-body material	PVC	PVC	PVC	PVC
Housing material	PVC	PVC	PVC	PVC
Contacts	Phosphor-bronze base	Phosphor-bronze base	Phosphor-bronze base	Phosphor-bronze base
Contact surface	Gold plated	Gold plated	Gold plated	Gold plated

Standard lengths	Ordering code			
	Part number			
0.5 m	<b>BCC073T</b>	<b>BCC0759</b>	<b>BCC075L</b>	<b>BCC075Y</b>
	BDN C-D11-AN-EAN-01-005M	BDN C-D11-BN-EAN-01-005M	BDN C-D11-CN-EAN-01-005M	BDN C-D11-DN-EAN-01-005M
1.0 m	<b>BCC073U</b>	<b>BCC075A</b>	<b>BCC075M</b>	<b>BCC075Z</b>
	BDN C-D11-AN-EAN-01-010M	BDN C-D11-BN-EAN-01-010M	BDN C-D11-CN-EAN-01-010M	BDN C-D11-DN-EAN-01-010M
3.0 m	<b>BCC073W</b>	<b>BCC075C</b>	<b>BCC075N</b>	<b>BCC0760</b>
	BDN C-D11-AN-EAN-01-030M	BDN C-D11-BN-EAN-01-030M	BDN C-D11-CN-EAN-01-030M	BDN C-D11-DN-EAN-01-030M
6.0 m	<b>BCC073Y</b>	<b>BCC075E</b>	<b>BCC075P</b>	<b>BCC0761</b>
	BDN C-D11-AN-EAN-01-060M	BDN C-D11-BN-EAN-01-060M	BDN C-D11-CN-EAN-01-060M	BDN C-D11-DN-EAN-01-060M



**more added value**  
 Max. length 100 m  
 (at 500 kbs baud rate)

# DeviceNet

Bus connection cables 7/8", 5-pin, **thin**, mini

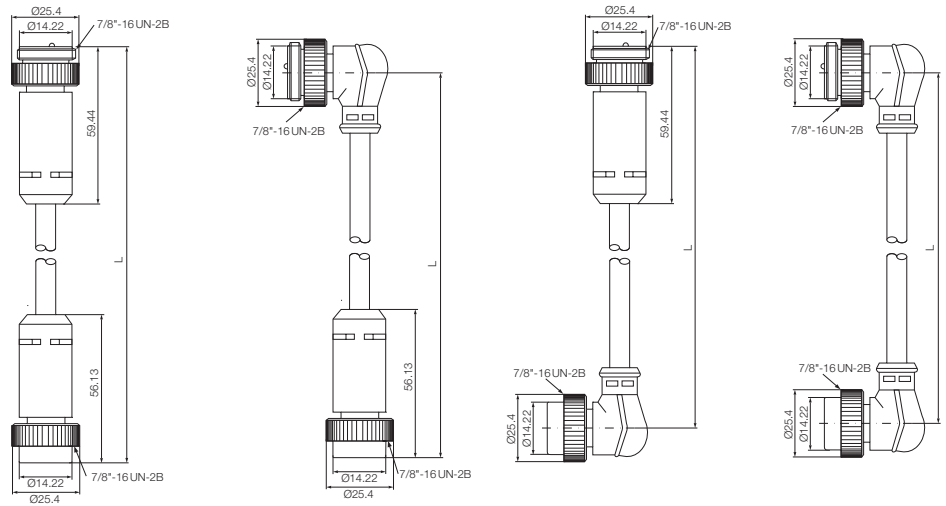


Mini size A 7/8" Standard 5-pin DN Straight female/ straight male 300 V 4 A 22 AWG PVC Epoxide-coated zinc	Mini size A 7/8" Standard 5-pin DN Straight female/ right-angle male 300 V 4 A 22 AWG PVC Epoxide-coated zinc	Mini size A 7/8" Standard 5-pin DN Right-angle female/ straight male 300 V 4 A 22 AWG PVC Epoxide-coated zinc	Mini size A 7/8" Standard 5-pin DN Right-angle female/ right-angle male 300 V 4 A 22 AWG PVC Epoxide-coated zinc
IP 68 -20...+80 °C PVC PVC Phosphor-bronze base Gold plated	IP 68 -20...+80 °C PVC PVC Phosphor-bronze base Gold plated	IP 68 -20...+80 °C PVC PVC Phosphor-bronze base Gold plated	IP 68 -20...+80 °C PVC PVC Phosphor-bronze base Gold plated



- Product topology
- Modules
- Bitmaps
- Bus cables**
- Single-ended bus cables and bus connection cables
- Bus terminating resistors
- Bus tee
- Bus device connectors
- Bus connectors
- Power cables
- Accessories
- Analyzer

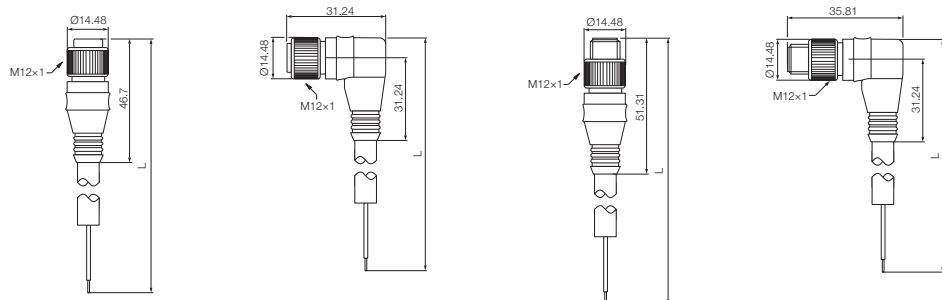
Ordering code			
Part number			
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<b>BCC072A</b> BDN C-D11-AC-EAA-01-010M	<b>BCC0737</b> BDN C-D11-AD-EAA-01-010M	<b>BCC0745</b> BDN C-D11-BC-EAA-01-010M	<b>BCC074R</b> BDN C-D11-BD-EAA-01-010M
<b>BCC072E</b> BDN C-D11-AC-EAA-01-030M	<b>BCC0738</b> BDN C-D11-AD-EAA-01-030M	<b>BCC0746</b> BDN C-D11-BC-EAA-01-030M	<b>BCC074T</b> BDN C-D11-BD-EAA-01-030M
<b>BCC072J</b> BDN C-D11-AC-EAA-01-060M	<b>BCC0739</b> BDN C-D11-AD-EAA-01-060M	<b>BCC0747</b> BDN C-D11-BC-EAA-01-060M	<b>BCC074U</b> BDN C-D11-BD-EAA-01-060M





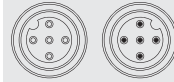
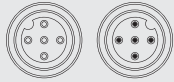
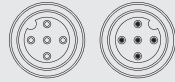
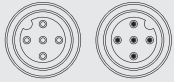
View of female/ male side				
Connector	M12	M12	M12	M12
Version	5-pin A-coded	5-pin A-coded	5-pin A-coded	5-pin A-coded
Configuration	Straight female	Right-angle female	Straight male	Right-angle male
Nominal voltage	300 V	300 V	300 V	300 V
Current rating	4 A	4 A	4 A	4 A
Cross-section	22 AWG	22 AWG	22 AWG	22 AWG
Cable	PVC	PVC	PVC	PVC
Knurled ring	Epoxide-coated zinc	Epoxide-coated zinc	Epoxide-coated zinc	Epoxide-coated zinc
Cable diameter, micro	6.86mm	6.86mm	6.86mm	6.86mm
Degree of protection	IP 68	IP 68	IP 68	IP 68
Ambient temperature range T <sub>a</sub>	-20...+105 °C	-20...+105 °C	-20...+105 °C	-20...+105 °C
Contact-body material	PVC	PVC	PVC	PVC
Housing material	PVC	PVC	PVC	PVC
Contacts	Phosphor-bronze base	Phosphor-bronze base	Phosphor-bronze base	Phosphor-bronze base
Contact surface	Gold plated	Gold plated	Gold plated	Gold plated

Standard lengths	Ordering code			
	Part number			
0.5 m	<b>BCC073Z</b> BDN C-D11-AN-EDN-01-005M	<b>BCC075F</b> BDN C-D11-BN-EDN-01-005M	<b>BCC075R</b> BDN C-D11-CN-EDN-01-005M	<b>BCC0762</b> BDN C-D11-DN-EDN-01-005M
1.0 m	<b>BCC0740</b> BDN C-D11-AN-EDN-01-010M	<b>BCC075H</b> BDN C-D11-BN-EDN-01-010M	<b>BCC075T</b> BDN C-D11-CN-EDN-01-010M	<b>BCC0763</b> BDN C-D11-DN-EDN-01-010M
3.0 m	<b>BCC0742</b> BDN C-D11-AN-EDN-01-030M	<b>BCC075J</b> BDN C-D11-BN-EDN-01-030M	<b>BCC075U</b> BDN C-D11-CN-EDN-01-030M	<b>BCC0764</b> BDN C-D11-DN-EDN-01-030M
6.0 m	<b>BCC0743</b> BDN C-D11-AN-EDN-01-060M	<b>BCC075K</b> BDN C-D11-BN-EDN-01-060M	<b>BCC075W</b> BDN C-D11-CN-EDN-01-060M	<b>BCC0765</b> BDN C-D11-DN-EDN-01-060M



# DeviceNet

M12 bus connection cables , 5-pin, **micro**, A-coded

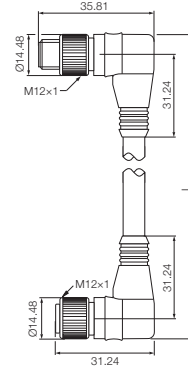
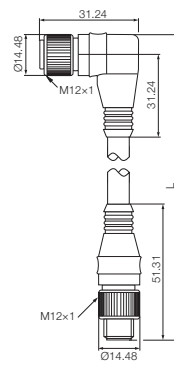
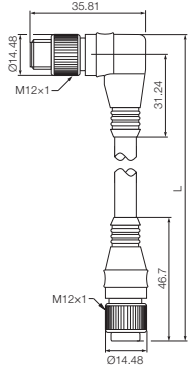
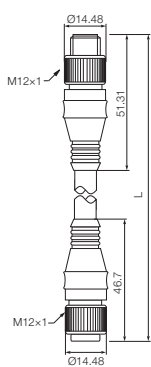


M12	M12	M12	M12
5-pin A-coded	5-pin A-coded	5-pin A-coded	5-pin A-coded
Straight female/ straight male	Straight female/ straight male	Right-angle female/ straight male	Right-angle female/ right-angle male
300 V	300 V	300 V	300 V
4 A	4 A	4 A	4 A
22 AWG	22 AWG	22 AWG	22 AWG
PVC	PVC	PVC	PVC
Epoxide-coated zinc	Epoxide-coated zinc	Epoxide-coated zinc	Epoxide-coated zinc
6.86mm	6.86mm	6.86mm	6.86mm
IP 68	IP 68	IP 68	IP 68
-20...+105 °C	-20...+105 °C	-20...+105 °C	-20...+105 °C
PVC	PVC	PVC	PVC
PVC	PVC	PVC	PVC
Phosphor-bronze base	Phosphor-bronze base	Phosphor-bronze base	Phosphor-bronze base
Gold plated	Gold plated	Gold plated	Gold plated



Product topology  
 Modules  
 Bitmaps  
**Bus cables**  
 Single-ended bus cables and bus connection cables  
 Bus terminating resistors  
 Bus tee  
 Bus device connectors  
 Bus connectors  
 Power cables  
 Accessories  
 Analyzer

Ordering code			
Part number			
<b>BCC0730</b>	<b>BCC073M</b>	<b>BCC074K</b>	<b>BCC0755</b>
BDN C-D11-AC-EDD-01-005M	BDN C-D11-AD-EDD-01-005M	BDN C-D11-BC-EDD-01-005M	BDN C-D11-BD-EDD-01-005M
<b>BCC0731</b>	<b>BCC073N</b>	<b>BCC074L</b>	<b>BCC0756</b>
BDN C-D11-AC-EDD-01-010M	BDN C-D11-AD-EDD-01-010M	BDN C-D11-BC-EDD-01-010M	BDN C-D11-BD-EDD-01-010M
<b>BCC0733</b>	<b>BCC073P</b>	<b>BCC074M</b>	<b>BCC0757</b>
BDN C-D11-AC-EDD-01-030M	BDN C-D11-AD-EDD-01-030M	BDN C-D11-BC-EDD-01-030M	BDN C-D11-BD-EDD-01-030M
<b>BCC0735</b>	<b>BCC073R</b>	<b>BCC074N</b>	<b>BCC0758</b>
BDN C-D11-AC-EDD-01-060M	BDN C-D11-AD-EDD-01-060M	BDN C-D11-BC-EDD-01-060M	BDN C-D11-BD-EDD-01-060M



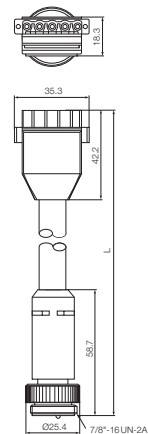
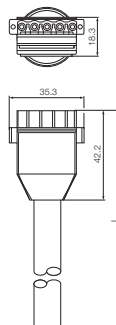
# DeviceNet

Single-ended bus cables and bus connection cables,  
5-pin



Connector	Open style	Open style
Version	Female 5-pin open	Male mini size A 7/8"
Configuration	Straight female	Female 5-pin open
Nominal voltage	300 V	Male standard 5-pin DN
Current rating	8 A	Straight female – straight male
Cross-section	15 AWG	300 V
Cable	PVC	8 A
Knurled ring	NA	15 AWG
Cable diameter	12.07 mm	PVC
Degree of protection	IP 20	NA
Ambient temperature range T <sub>a</sub>	-35...+60 °C	12.07 mm
Contact-body material	PVC	IP 20
Housing material	PVC	-35...+60 °C
Contacts	Phosphor-bronze base	PVC
Contact surface	Gold plated	Phosphor-bronze base
		Gold plated

Standard lengths	Ordering code	
	Part number	
0.5 m	<b>BCC07MK</b> BDN C-T01-RN-OON-01-005M	<b>BCC07ME</b> BDN C-T01-RC-EOA-01-005M
1.0 m	<b>BCC07ML</b> BDN C-T01-RN-OON-01-010M	<b>BCC07MF</b> BDN C-T01-RC-EOA-01-010M
3.0 m	<b>BCC07MM</b> BDN C-T01-RN-OON-01-030M	<b>BCC07MH</b> BDN C-T01-RC-EOA-01-030M
6.0 m	<b>BCC07MN</b> BDN C-T01-RN-OON-01-060M	<b>BCC07MJ</b> BDN C-T01-RC-EOA-01-060M



# DeviceNet

Single-ended bus cables and bus connection cables,  
5-pin



Connector	Open style	Open style Male mini size A 7/8"	Open style Male M12
Version	Female 5-pin open	Female 5-pin open Male standard 5-pin DN	Female 5-pin open Male 5-pin A-coded
Configuration	Straight female	Straight female/straight male	Straight female/straight male
Nominal voltage	300 V	300 V	300 V
Current rating	4 A	8 A	8 A
Cross-section	22 AWG	15 AWG	15 AWG
Cable	PVC	PVC	PVC
Knurled ring	NA	Epoxide-coated zinc	Epoxide-coated zinc
Cable diameter	6.86mm	6.86mm	6.86mm
Degree of protection	IP 20	IP 20	IP 21
Ambient temperature range T <sub>a</sub>	-35...+60 °C	-35...+60 °C	-35...+60 °C
Contact-body material	PVC	PVC	PVC
Housing material	PVC	PVC	PVC
Contacts	Phosphor-bronze base	Phosphor-bronze base	Phosphor-bronze base
Contact surface	Gold plated	Gold plated	Gold plated



Product topology

Modules

Bitmaps

Bus cables

**Single-ended bus cables and bus connection cables**

Bus terminating resistors

Bus tee

Bus device connectors

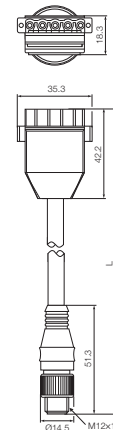
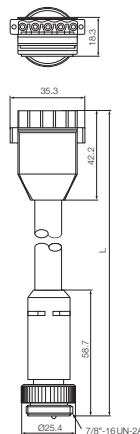
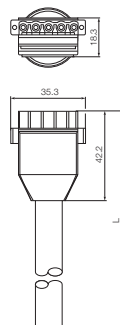
Bus connectors

Power cables

Accessories

Analyzer

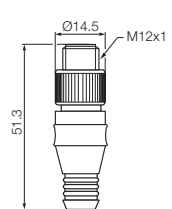
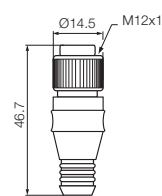
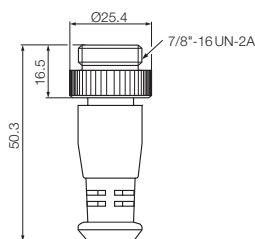
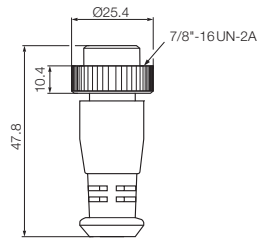
Standard lengths	Ordering code		
	Part number		
0.5 m	<b>BCC076H</b> BDN C-D11-RN-OON-01-005M	<b>BCC0766</b> BDN C-D11-RC-EOA-01-005M	<b>BCC076A</b> BDN C-D11-RC-EOD-01-005M
1.0 m	<b>BCC076J</b> BDN C-D11-RN-OON-01-010M	<b>BCC0767</b> BDN C-D11-RC-EOA-01-010M	<b>BCC076C</b> BDN C-D11-RC-EOD-01-010M
3.0 m	<b>BCC076K</b> BDN C-D11-RN-OON-01-030M	<b>BCC0768</b> BDN C-D11-RC-EOA-01-030M	<b>BCC076E</b> BDN C-D11-RC-EOD-01-030M
6.0 m	<b>BCC076L</b> BDN C-D11-RN-OON-01-060M	<b>BCC0769</b> BDN C-D11-RC-EOA-01-060M	<b>BCC076F</b> BDN C-D11-RC-EOD-01-060M







View of female/male side				
Connector	Female mini size A 7/8"	Male mini size A 7/8"	Female M12	Male M12
Version	Female standard	Male standard	Female	Male
Configuration	5-pin DN	5-pin DN	5-pin A-coded	5-pin A-coded
Without LED	<b>Ordering code</b> <b>BCC07Y7</b> <b>Part number</b> BDN R-AEA-01	<b>Ordering code</b> <b>BCC07Y9</b> <b>Part number</b> BDN R-CEA-01	<b>Ordering code</b> <b>BCC07YE</b> <b>Part number</b> BDN R-AED-01	<b>Ordering code</b> <b>BCC07YC</b> <b>Part number</b> BDN R-CED-01
With power diagnostics, LED	<b>Ordering code</b> <b>BCC07Y8</b> <b>Part number</b> BDN R-AEA-01-L	<b>Ordering code</b> <b>BCC07YA</b> <b>Part number</b> BDN R-CEA-01-L		
Nominal voltage	50 V	50 V	50 V	50 V
Current rating	8 A	8 A	4 A	4 A
Housing material	PVC	PVC	PVC	PVC
Degree of protection	IP 68	IP 68	IP 68	IP 68
Knurled ring	Epoxide-coated zinc	Epoxide-coated zinc	Epoxide-coated zinc	Epoxide-coated zinc
Ambient temperature range T <sub>a</sub>	0...+60 °C	0...+60 °C	0...+60 °C	0...+60 °C
Contacts	Phosphor-bronze base	Phosphor-bronze base	Phosphor-bronze base	Phosphor-bronze base
Contact surface	Gold plated	Gold plated	Gold plated	Gold plated

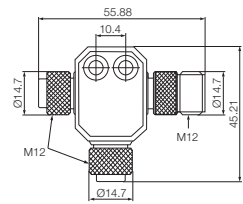
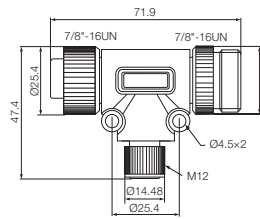
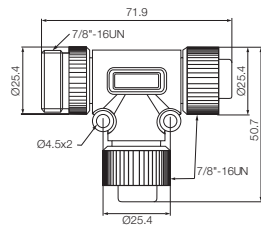




View of female/male side			
Connector pass-thru	Female and male mini size A 7/8"	Female and male mini size A 7/8"	Female M12
Connector drop	Female mini size A 7/8"	Female M2	Female M12
Style: pass-thru	Female and male standard 5-pin DN	Female and male standard 5-pin DN	Female and male 5-pin A-coded
Style: drop	Female standard 5-pin DN	Female 5-pin A-coded	Female 5-pin A-coded
Configuration	Mini pass-thru, mini drop	Mini pass-thru, micro drop	Micro pass-thru, micro drop
<b>Ordering code</b>	<b>BCC07WP</b>	<b>BCC07WZ</b>	<b>BCC07WR</b>
Part number	BDN T-DTE-AA-01	BDN T-DTE-AD-01	BDN T-DTN-DD-01
Nominal voltage	30 V	30 V	30 V
Current rating	5 A	5 A	5 A
Housing material	TPE	TPE	PVC
Degree of protection	IP 67	IP 67	IP 68
Knurled ring	Epoxide-coated zinc	Epoxide-coated zinc	Nickel-plated brass
Ambient temperature range $T_a$	-20...+80 °C	-20...+80 °C	-35...+60 °C
Contacts	Phosphor-bronze base	Phosphor-bronze base	Phosphor-bronze base
Contact surface	Gold plated	Gold plated	Gold plated



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- Bus tee**
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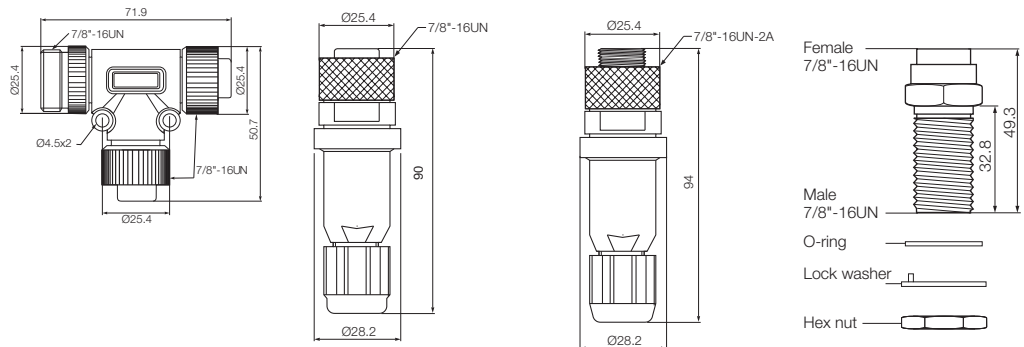


# DeviceNet

Bus tee, field-attachable bus connector, 7/8", 4-pin



P/N	Tee	Field attachable connectors	Field attachable connectors	Female/male bulkhead
Configuration	Mini pass-thru, mini drop	Female mini	Male mini	Mini pass-thru
Connector	Female/male, 4-pin, mini size A 7/8" Female mini size A 7/8"	Female 4-pin, Mini size A 7/8"	Male 4-pin, Mini size A 7/8"	Female mini size A 7/8" Male mini size A 7/8"
<b>Ordering code</b>	<b>BCC07WW</b>	<b>BCC06LA</b>	<b>BCC06LC</b>	<b>BCC029K</b>
Part number	BDN T-PTE-AA-01	C05 AN-A4-13	C05 CN-A4-13	R05 EN-04-T
Nominal voltage	50 V	600 V	600 V	600 V
Current rating	8 A	8 A	8 A	10 A
Housing material	TPE	Polyamide	Polyamide	Epoxide-coated zinc
Connections		Screw terminals	Screw terminals	
Ambient temperature range T <sub>a</sub>	-20...+80 °C	-40...+80 °C	-40...+80 °C	-28...+40 °C
Max. cable cross-section		24...15 AWG	24...15 AWG	16 AWG
Cable diameter		5...12 mm	5...12 mm	
Mounting thread				1/2"-14 NPT



# DeviceNet

Bus device connectors, 7/8", 4-pin

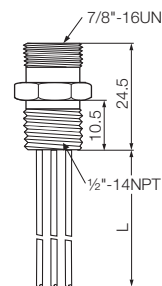
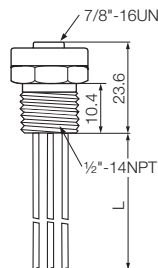


P/N	Female receptacle	Male receptacle
Configuration	Mini female	Mini male
Connector	Female 4-pin, mini size A 7/8"	Male 4-pin, mini size A 7/8"
Nominal voltage	600 V	600 V
Current rating	10 A	10 A
Housing material	Epoxide-coated zinc	Epoxide-coated zinc
Ambient temperature range T <sub>a</sub>	-28...+40 °C	-28...+40 °C
Max. cable cross-section	16 AWG	16 AWG
Mounting thread	1/2"-14 NPT	1/2"-14 NPT

Standard lengths	Ordering code	
	Part number	
0.3 m	<b>BCC06LF</b> R05 AA-04-B-16A-003M	<b>BCC06LK</b> R05 CA-04-B-16A-003M
1 m	<b>BCC06LH</b> R05 AA-04-B-16A-010M	<b>BCC06LL</b> R05 CA-04-B-16A-010M
2 m	<b>BCC06L5</b> R05 AA-04-B-16A-020M	<b>BCC06LM</b> R05 CA-04-B-16A-020M



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# DeviceNet

Power cables 7/8", 4-pin

**more added value**

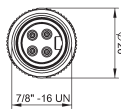
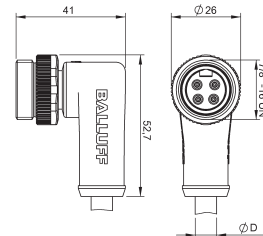
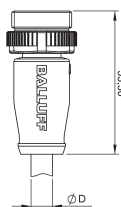
For improved fitting accuracy!  
Connectors are adapted perfectly to  
DeviceNet modules.



Connector diagram and wiring		
Version	<b>Male</b>	<b>Male</b>
Power supply max. $U_B$ /current rating	300 V DC/9 A	300 V DC/9 A
Cable	PUR	PUR
No. of wires $\times$ cross-section	4 $\times$ 1.5 mm <sup>2</sup>	4 $\times$ 1.5 mm <sup>2</sup>
Degree of protection as per IEC 60529	IP 68	IP 68
Ambient temperature range $T_a$	-25...+80° C	-25...+80° C
Housing material	PUR	PUR
Knurled ring	Brass	Brass

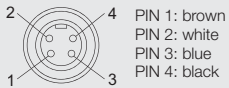
Cable material	Color	Length	Ordering code	
			Part number	
PUR	Black	2 m	<b>BCC06HL</b>	<b>BCC06HP</b>
			BCC A314-000-20-003-PX04A5-020	BCC A324-0000-20-003-PX04A5-020
PUR	Black	5 m	<b>BCC06HM</b>	<b>BCC06HR</b>
			BCC A314-000-20-003-PX04A5-050	BCC A324-0000-20-003-PX04A5-050
PUR	Black	10 m	<b>BCC06HN</b>	<b>BCC06HT</b>
			BCC A314-000-20-003-PX04A5-100	BCC A324-0000-20-003-PX04A5-100

Other cable materials, colors and lengths on request.

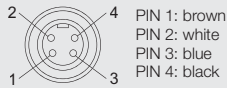


# DeviceNet

## Power cables 7/8", 4-pin



PIN 1: brown  
PIN 2: white  
PIN 3: blue  
PIN 4: black



PIN 1: brown  
PIN 2: white  
PIN 3: blue  
PIN 4: black

### Female

300 V DC/9 A

PUR

4x1.5 mm<sup>2</sup>

IP 68

-25...+80° C

PUR

Brass

### Female

300 V DC/9 A

PUR

4x1.5 mm<sup>2</sup>

IP 68

-25...+80° C

PUR

Brass

### Ordering code

Part number

#### BCC06HU

BCC A314-0000-10-003-PX04A5-020

#### BCC06HZ

BCC A324-0000-10-003-PX04A5-020

#### BCC06HW

BCC A314-0000-10-003-PX04A5-050

#### BCC06J0

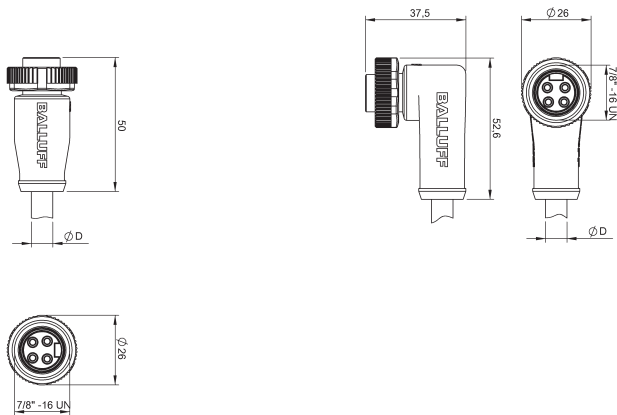
BCC A324-0000-10-003-PX04A5-050

#### BCC06HY

BCC A314-0000-10-003-PX04A5-100

#### BCC06J1

BCC A324-0000-10-003-PX04A5-100



- Product topology
- Modules
- Bitmaps
- Bus cables
- Single-ended bus cables and bus connection cables
- Bus terminating resistors
- Bus tee
- Bus device connectors
- Bus connectors
- Power cables**
- Accessories
- Analyzer

# DeviceNet

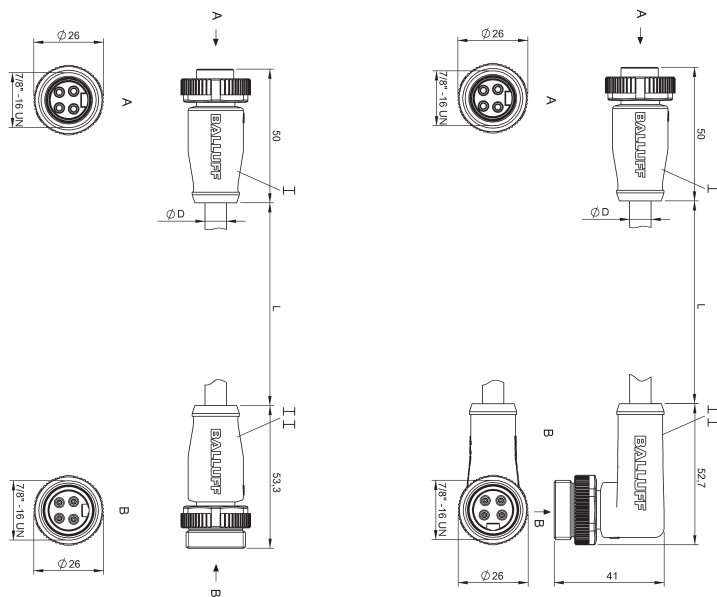
Power connection cables 7/8", 4-pin



Connector diagram and wiring	<p>PIN 1: brown PIN 2: white PIN 3: blue PIN 4: black</p>	<p>PIN 1: brown PIN 2: white PIN 3: blue PIN 4: black</p>	
Version	<b>Female/male</b>	<b>Female/male</b>	
Power supply max. $U_B$ /current rating	300 V DC/9 A	300 V DC/9 A	
Cable	PUR	PUR	
No. of wires $\times$ cross-section	4 $\times$ 1.5 mm <sup>2</sup>	4 $\times$ 1.5 mm <sup>2</sup>	
Degree of protection as per IEC 60529	IP 68	IP 68	
Ambient temperature range $T_a$	-25...+80° C	-25...+80° C	
Housing material	PUR	PUR	
Knurled ring	Brass	Brass	

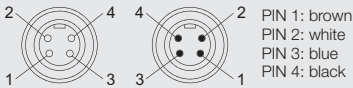
Cable material	Color	Length	Ordering code	
			Part number	
PUR	Black	0.6 m	<b>BCC06J2</b>	<b>BCC06J7</b>
			BCC A314-A314-30-304-PX04A5-006	BCC A314-A324-30-304-PX04A5-006
PUR	Black	2 m	<b>BCC06J3</b>	<b>BCC06J8</b>
			BCC A314-A314-30-304-PX04A5-020	BCC A314-A324-30-304-PX04A5-020
PUR	Black	5 m	<b>BCC06J4</b>	<b>BCC06J9</b>
			BCC A314-A314-30-304-PX04A5-050	BCC A314-A324-30-304-PX04A5-050
PUR	Black	10 m	<b>BCC06J5</b>	<b>BCC06JA</b>
			BCC A314-A314-30-304-PX04A5-100	BCC A314-A324-30-304-PX04A5-100
PUR	Black	15 m	<b>BCC06J6</b>	<b>BCC06JC</b>
			BCC A314-A314-30-304-PX04A5-150	BCC A314-A324-30-304-PX04A5-150

Other cable materials, colors and lengths on request.

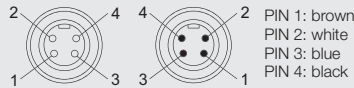


# DeviceNet

Power connection cables 7/8", 4-pin



PIN 1: brown  
PIN 2: white  
PIN 3: blue  
PIN 4: black



PIN 1: brown  
PIN 2: white  
PIN 3: blue  
PIN 4: black

### Female/male

300 V DC/9 A

PUR

4x1.5 mm<sup>2</sup>

IP 68

-25...+80° C

PUR

Brass

### Female/male

300 V DC/9 A

PUR

4x1.5 mm<sup>2</sup>

IP 68

-25...+80° C

PUR

Brass

### Ordering code

Part number

#### BCC06JE

BCC A324-A314-30-304-PX04A5-006

#### BCC06JF

BCC A324-A314-30-304-PX04A5-020

#### BCC06JH

BCC A324-A314-30-304-PX04A5-050

#### BCC06JJ

BCC A324-A314-30-304-PX04A5-100

#### BCC06JK

BCC A324-A314-30-304-PX04A5-150

#### BCC06JL

BCC A324-A324-30-304-PX04A5-006

#### BCC06JM

BCC A324-A324-30-304-PX04A5-020

#### BCC06JN

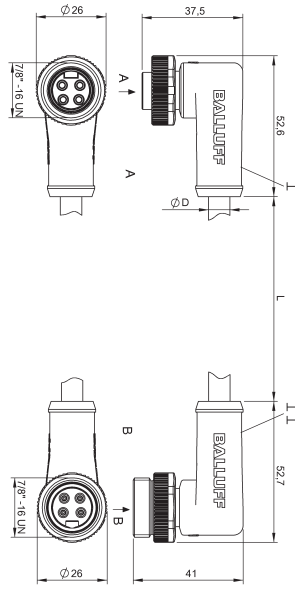
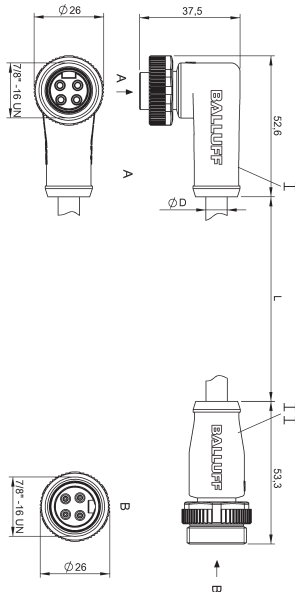
BCC A324-A324-30-304-PX04A5-050

#### BCC06JP

BCC A324-A324-30-304-PX04A5-100

#### BCC06JR

BCC A324-A324-30-304-PX04A5-150



Product topology

Modules

Bitmaps

Bus cables

Single-ended bus cables and bus connection cables

Bus terminating resistors

Bus tee

Bus device connectors

Bus connectors

**Power cables**

Accessories

Analyzer



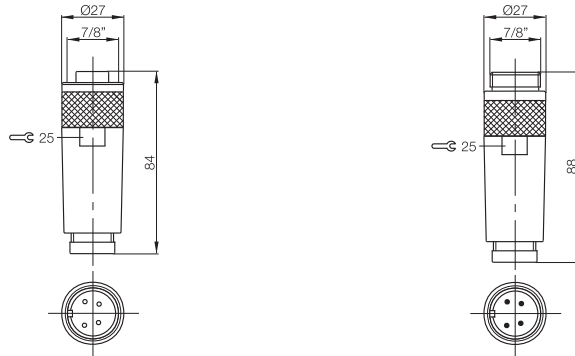
# DeviceNet

Bus connectors, 7/8", 4-pin

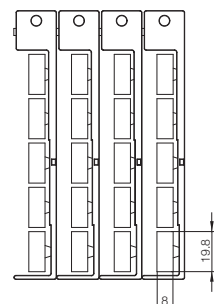







Connector diagram and wiring		
Version	<b>Female</b>	<b>Male</b>
Power supply max. $U_B$ /current rating	250 V	250 V
No. of wires $\times$ cross-section	4 $\times$ 1.5 mm <sup>2</sup>	4 $\times$ 1.5 mm <sup>2</sup>
Degree of protection as per IEC 60529	IP 67	IP 67
Ambient temperature range $T_a$	-25...+80 °C	-25...+80 °C
Housing material	PBT	PBT
Knurled ring	Brass	Brass
Screw terminal	max. 1.5 mm <sup>2</sup>	max. 1.5 mm <sup>2</sup>

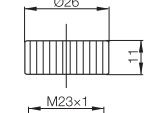
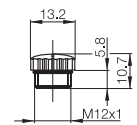
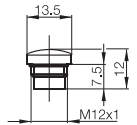
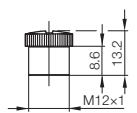
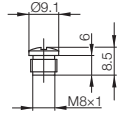
Cable material	Color	Length	Ordering code	
			Part number	
PUR	Black	2 m	<b>BCC0706</b>	<b>BCC0709</b>
6-8 mm			BCC A334-0000-10-000-51X4A5-000	BCC A334-0000-20-000-51X4A5-000
PUR	Black	2 m	<b>BCC0707</b>	<b>BCC070A</b>
8-10 mm			BCC A334-0000-10-000-61X4A5-000	BCC A334-0000-20-000-61X4A5-000
PUR	Black	2 m	<b>BCC0708</b>	<b>BCC070C</b>
10-12 mm			BCC A334-0000-10-000-71X4A5-000	BCC A334-0000-20-000-71X4A5-000



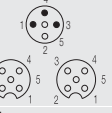
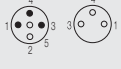
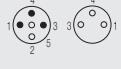
Description	Tamperproof cover with 3 openings	Marking sleeve For labeling connectors	Label set Labeling the ports for modules BNI PBS..., BNI PNT..., BNI DNT..., BNI EIP..., BNI CCL...
Version			
<b>Ordering code</b>			<b>BAM01AT</b>
Part number	BAM FK-NI-003-DNT-01	BAM IA-CC-002-01	BNI ACC-L01-000
Housing material			Plastic

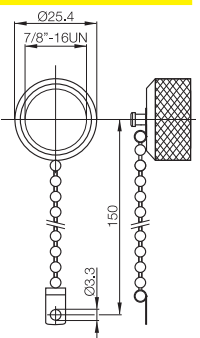
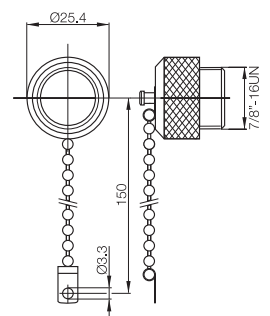
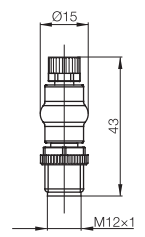
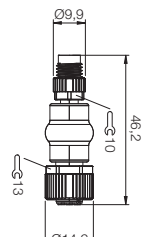
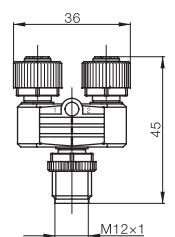


					
Description	M8 screw plug	M12 screw plug	M12 screw plug	M12 screw plug	M23 screw plug
Version	IP 65 screw plug for unused ports	IP 65 screw plug for unused ports	IP 65 screw plug for unused ports	IP 65 screw plug for unused ports	IP 65 screw plug for unused ports
<b>Ordering code</b>	<b>BAM01C1</b>	<b>BAM01C2</b>	<b>BAM0114</b>	<b>BAM0115</b>	<b>BAM012P</b>
Part number	BAM CS-XA-001-M8-C	BAM CS-XA-002-M12-A	BKS 12-CS-01	BKS 12-CS-02	BKS 23-CS-00
Ambient temperature $T_a$	-20...+80 °C	-20...+80 °C	-20...+80 °C	-20...+80 °C	-20...+80 °C
Housing material	Plastic	Plastic	Nickel-plated brass	PA 6	Nickel-plated brass



- Product topology
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- Bus device connectors
- Bus connectors**
- Power cables
- Accessories**
- Analyzer

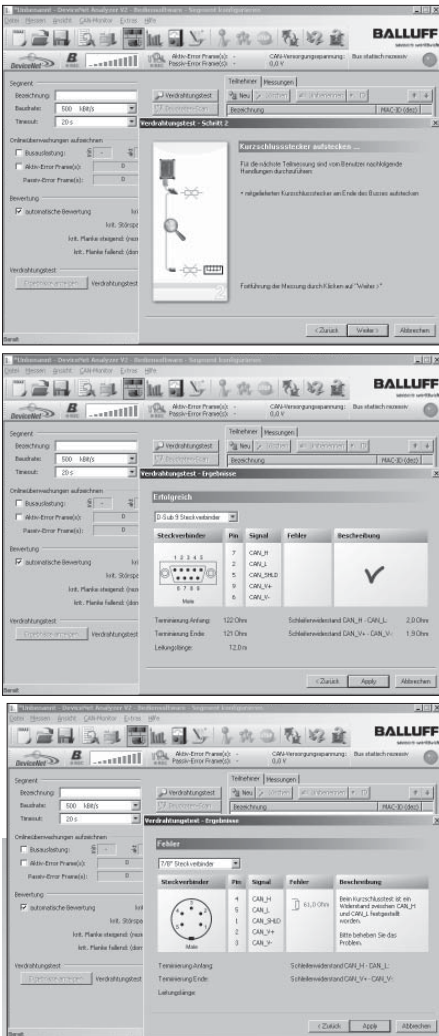
View of female/male side					
Description	Tee	Adapter	Adapter	Screw plug 7/8"	Screw plug 7/8"
Version	M12 male to M12 female 2x 2 signals to one port	M8 male 3-pin to M12 female 3-pin	M12 male 3-pin to M8 female 3-pin	Cover for the power ports	Cover for the power ports
<b>Ordering code</b>	<b>BCC02CL</b>	<b>BCC007W</b>	<b>BCC02CK</b>		
Part number	BKS-S4-TM1-01	BKS-S49-GM1/S4	BKS-S4-GM1-01/S49	BKS-7/8-CS-00-A	BKS-7/8-CS-00-I
Power supply $U_B$	Max. 24 V DC	Max. 24 V DC	Max. 24 V DC		
Rated operating current $I_B$	Max. 4 A per contact	Max. 4 A per contact	Max. 4 A per contact		
Degree of protection as per IEC 60529	IP 67	IP 67	IP 67		
Ambient temperature range $T_a$	-25...+90 °C	-25...+85 °C	-25...+85 °C	-20...+80 °C	-20...+80 °C
Housing material	Nickel-plated Gd-Zn	Nickel-plated Gd-Zn	Nickel-plated Gd-Zn	Nickel-plated brass	Nickel-plated brass



# DeviceNet

Analyzer – for analyzing, monitoring and maintaining DeviceNet installations

**more added value**  
On-site testing and analysis!



The new DeviceNet Analyzer is a particularly powerful tool for analyzing, commissioning, monitoring and maintaining DeviceNet/CAN bus systems. The DeviceNet tester was designed primarily for preventive maintenance purposes. Whether maintenance technicians, integrators or technical experts, anyone who requires reliable information on the functional status of their DeviceNet system can use the DeviceNet analyzer to increase the overall efficiency of their facility. On-site testing and analysis simplify your working day, increase reliability and save you time.

### Wiring test during commissioning

The analyzer wiring test is able to detect defects and weak points such as incorrect cable types and lengths, short circuits, line breaks and faulty plug connections as early as the installation phase. Analysis of the bus physics before or during commissioning is another important feature. Every node can check the rate of change, signal-to-noise ratio and much more to enable the consistent identification of telegrams with a poor signal quality as well as the rapid identification of possible causes of the faults (such as missing/excess number of bus terminations, faulty bus drivers, bus or stub lines that are too long, etc.). Not only does this ensure that the specification is observed, but it also achieves an optimum signal quality. The bus operates more reliably and, at the same time, is more resistant to EMC problems.



# DeviceNet

Analyzer – for analyzing, monitoring and maintaining DeviceNet installations, bitmaps

## Monitoring during ongoing operation

A comparison with previous measurements can be performed easily during operation, either at regular intervals or continuously via an online function. The DeviceNet analyzer saves all the measuring and report data for the installation being monitored. A gradual degradation of quality caused by cable wear, for example, can therefore no longer be overlooked. Preventive maintenance saves time and costs compared to a sudden system failure.

## Scope of delivery

The analyzer set in a durable case provides the user with the ultimate weapon for all eventualities. The device is equipped with a complete set of high-quality DeviceNet accessories designed for harsh industrial use. The user can get started right away because all the necessary components such as adapters, adapter cables, tees and bus terminating resistors are already included. The analyzer also has a USB interface for connecting a PC or notebook. The device is very simple to operate thanks to the user-friendly PC software.



- Product topology
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- Analyzer**

**DeviceNet/CAN Analyzer**  
**BCC00C0**  
BNI ACC A03-01-01

