



CC-Link

CC-Link

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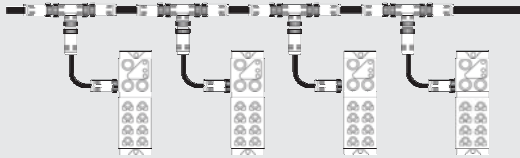
CC-Link is the most dominant and fastest growing fieldbus technology in Asia. The open network is supported by the global CC-Link partner association CLPA, which comprises more than 1000 companies.

CC-Link is a standardized fieldbus designed to integrate different automation components from a wide range of providers. CC-Link is an effective integral system that will fulfill 100 % of your application requirements.

Utilize the extensive, high-quality CC-Link portfolio from Balluff to implement your own powerful control topologies using products from a single source.

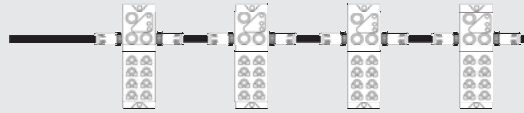
Trunk and drop

- 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



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.

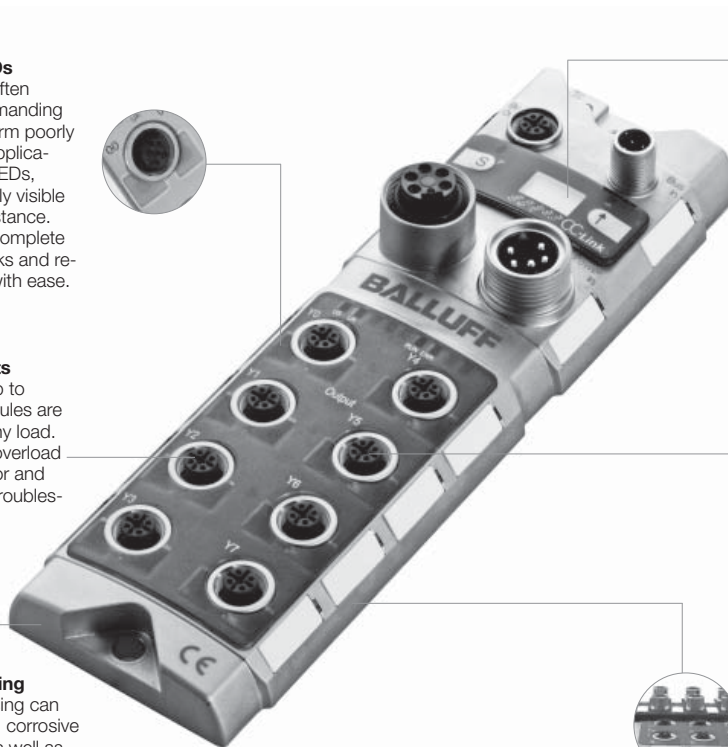


Powerful and safe outputs

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.

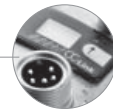
Robust, solid metal housing

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.



Addressable display

IP address, subnet mask and gateway address appear on the illuminated display. Push buttons can be used to set each octet of the addresses specified above. The display can be disabled via the PLC (controller).

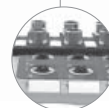


Inputs with high density

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.



CC-Link Modules



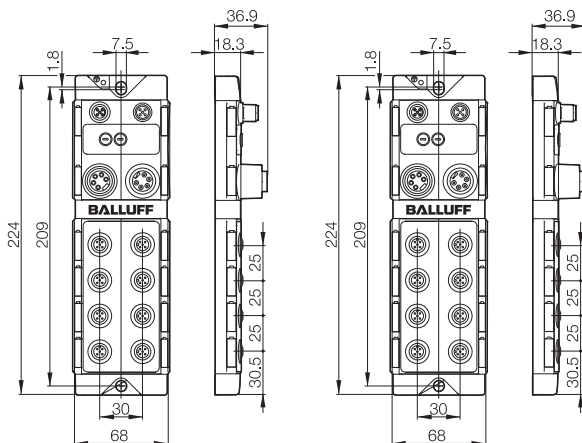
| | |
|-------------------------------|-------------------------------|
| CC-Link | CC-Link |
| 16 inputs/16 outputs | 8 inputs/8 outputs |
| BNI002A | BNI002C |
| BNI CCL-302-100-Z001 | BNI CCL-305-100-Z001 |
| 18...30 V DC | 18...30 V DC |
| Green LED | Green LED |
| Red LED | Red LED |
| Module/actuator/sensor supply | Module/actuator/sensor supply |
| M12, 5-pin, female and male | M12, 5-pin, female and male |
| 7/8", 5-pin, female and male | 7/8", 5-pin, female and male |
| M12, A-coded, female | M12, A-coded, female |
| 8 | 8 |
| max. 16 | 8 |
| max. 16 | 8 |
| Yes | No |
| 200 mA | 200 mA |
| 2 A | 2 A |
| Yellow LED | Yellow 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...+75 °C | -25...+75 °C |
| Approx. 577 g | Approx. 577 g |
| 2 mounting holes | 2 mounting holes |
| 224×68×36.9 mm | 224×68×36.9 mm |
| Nickel-plated Gd-Zn | Nickel-plated Gd-Zn |



Product topology

Modules

- Power cables
- Power tee
- Bus cables
- Bus connectors
- Terminating resistor
- Accessories



CC-Link

Power cables 7/8", 5-pin

more added value

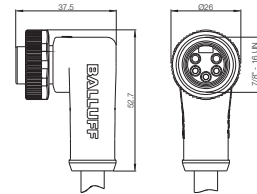
For improved fitting accuracy!
Connector with metal thread – adapted perfectly for
CC-Link modules. Metal on metal guarantees durability
and a high degree of protection in all applications!



| | | |
|---|---|---|
| Connector diagram and wiring | <p>PIN 1: black PIN 2: blue PIN 3: green/yellow PIN 4: brown PIN 5: white</p> | <p>PIN 1: black PIN 2: blue PIN 3: green/yellow PIN 4: brown PIN 5: white</p> |
| Version | Female | Female |
| Power supply max. U_B /current rating | 300 V DC/9 A | 300 V DC/9 A |
| Cable | PUR | PUR |
| No. of wires × cross-section | 5×1.5 mm ² | 5×1.5 mm ² |
| 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 |

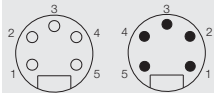
| Cable material | Color | Length | Ordering code |
|----------------|-------|--------|---|
| PUR | Black | 0.6 m | Part number |
| PUR | Black | 2 m | BCC06HC BCC A315-0000-10-063-PX05A5-020 |
| PUR | Black | 5 m | BCC06HE BCC A315-0000-10-063-PX05A5-050 |
| PUR | Black | 10 m | BCC06HF BCC A315-0000-10-063-PX05A5-100 |
| PUR | Black | 15 m | |

Other cable materials, colors and lengths on request.



CC-Link

Power connection cables 7/8", 5-pin



Female/male

300 V DC/9 A
PUR
5x1.5 mm²
IP 68
-25...+80 °C
PUR
Brass

Female/male

300 V DC/9 A
PUR
5x1.5 mm²
IP 68
-25...+80 °C
PUR
Brass

Ordering code

Part number

BCC06FM

BCC A315-A315-30-335-PX05A5-006

BCC06H6

BCC A325-A325-30-335-PX05A5-006

BCC06FN

BCC A315-A315-30-335-PX05A5-020

BCC06H7

BCC A325-A325-30-335-PX05A5-020

BCC06FP

BCC A315-A315-30-335-PX05A5-050

BCC06H8

BCC A325-A325-30-335-PX05A5-050

BCC06FR

BCC A315-A315-30-335-PX05A5-100

BCC06H9

BCC A325-A325-30-335-PX05A5-100

BCC06FT

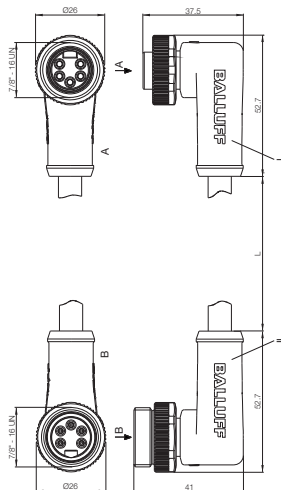
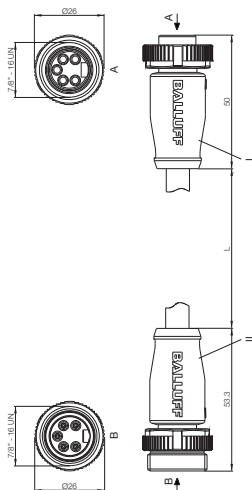
BCC A315-A315-30-335-PX05A5-150

BCC06HA

BCC A325-A325-30-335-PX05A5-150



- Product topology
- Modules
- Power cables**
- Power tee
- Bus cables
- Bus connectors
- Terminating resistor
- Accessories

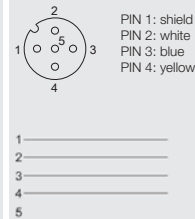
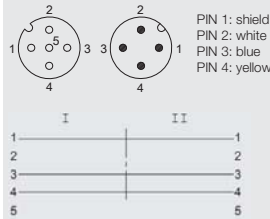


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Bus cable, M12, 4-pin, A-coded



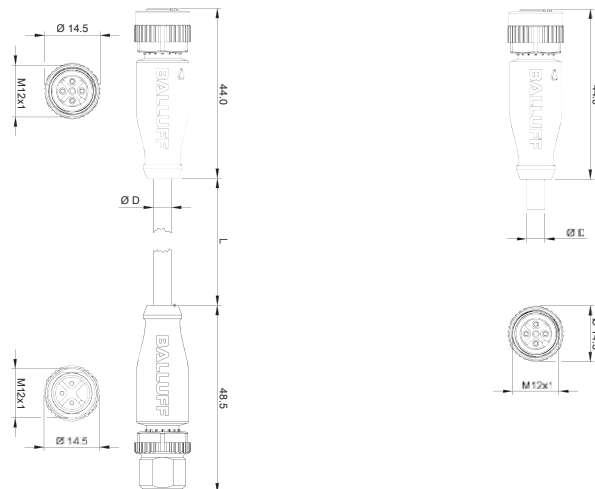
Connector diagram and wiring



| | | |
|---|-----------------------------|-----------------------------|
| Version | Female/male | Female |
| Power supply max. U_B /current rating | 250 V | 250 V |
| Cable | PVC | PVC |
| No. of wires \times cross-section | 3 \times 1 \times AWG20 | 3 \times 1 \times AWG20 |
| Degree of protection as per IEC 60529 | IP 67 | IP 67 |
| Ambient temperature range T_a | -25...+70 °C | -25...+70 °C |
| Housing material | PUR | PUR |
| Knurled ring | Brass | Brass |

| Cable material | Color | Length | Ordering code | |
|----------------|-------|--------|---|---|
| | | | Part number | |
| PUR | red | 0.6 m | BCC06WU BCC M415-M414-3A-337-VS24N7-006 | |
| PUR | Red | 2 m | BCC06WW BCC M415-M414-3A-337-VS24N7-020 | BCC06Y1 BCC M415-0000-1A-068-VS24N7-020 |
| PUR | Red | 5 m | BCC06WY BCC M415-M414-3A-337-VS24N7-050 | BCC06Y2 BCC M415-0000-1A-068-VS24N7-050 |
| PUR | Red | 10 m | BCC06WZ BCC M415-M414-3A-337-VS24N7-100 | BCC06Y3 BCC M415-0000-1A-068-VS24N7-100 |
| PUR | Red | 15 m | BCC06Y0 BCC M415-M414-3A-337-VS24N7-150 | |

Other cable materials, colors and lengths on request.



CC-Link

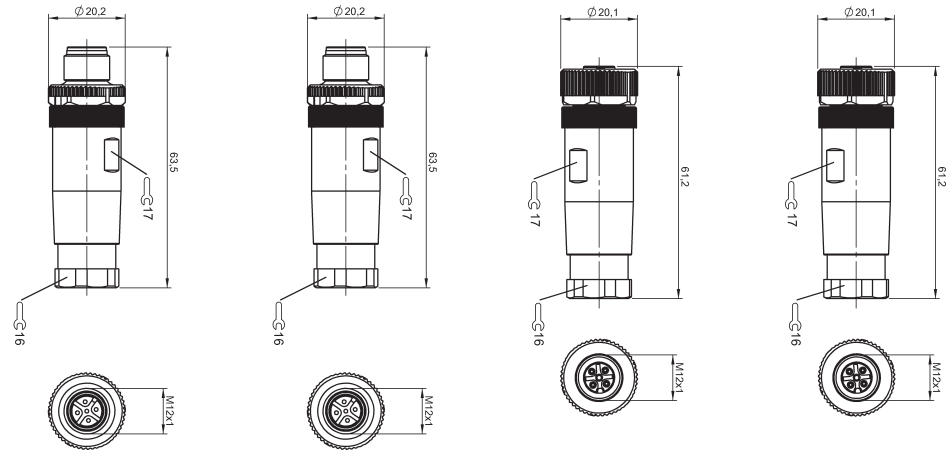
M12 bus connector, 4-pin, A-coded,
Customized assembly, shieldable



| | | | | |
|--|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| View of female/male side | | | | |
| Connector | M12 | M12 | M12 | M12 |
| Version | A-coded | A-coded | A-coded | A-coded |
| Version | 4-pin | 4-pin | 4-pin | 4-pin |
| Version | Male | Male | Female | Female |
| Ordering code | BCC06F7 | BCC06Y5 | BCC06F6 | BCC06Y6 |
| Part number | BCC M434-0000-2A-000-51X475-000 | BCC M434-0000-2A-000-55X450-000 | BCC M435-0000-1A-000-51X475-000 | BCC M435-0000-1A-000-55X450-000 |
| No. of wires × cross-section | 4×0.75 mm ² | 4×0.75 mm ² | 4×0.75 mm ² | 4×0.75 mm ² |
| Cable diameter min. | Max. 8.0 mm | Max. 8.0 mm | Max. 8.0 mm | Max. 8.0 mm |
| Connection | Screw terminal | Spring clamp terminal | Screw terminal | Spring clamp terminal |
| Degree of protection as per IEC 60529 | IP 67 | IP 67 | IP 67 | IP 67 |
| Ambient temperature range T _a | -25...+85 °C | -25...+85 °C | -25...+85 °C | -25...+85 °C |
| Housing material | PA | PA | PA | PA |
| Shielded version | Yes* | Yes* | Yes* | Yes* |

Product topology
Modules
Power cables
Power tee
Bus cables
Bus connectors
Terminating resistor
Accessories

*Knurled ring used for shielding

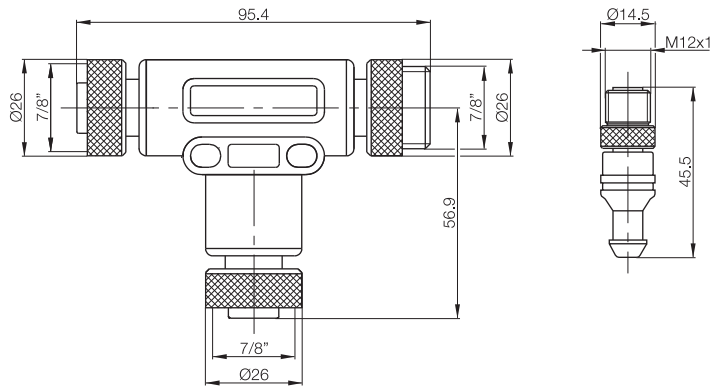


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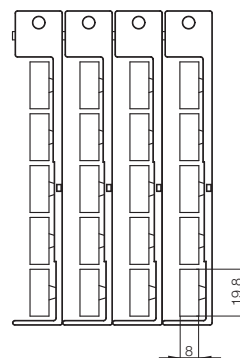
Power tee, terminating resistor, accessories








| | | |
|---------------------------------------|--|--------------------------|
| View of female/male side | <p>1 0V 2 0V 3 PE 4 Power supply 5 Actuator supply</p> | |
| Configuration | 7/8" power distributor | M12 terminating resistor |
| Version | Standard | A-coded |
| Version | 5-pin | 5-pin |
| Version | Female/male | |
| Ordering code | BCC00AZ | BCC06Y4 |
| Part number | BKS-S248-TL2-01 | BCC M415-0000-2A-R03 |
| Power supply U_B | 300 V AC | 10...30 V DC |
| Degree of protection as per IEC 60529 | IP 67 | IP 67 |
| Ambient temperature range T_a | -40...+90 °C | -40...+85 °C |
| Housing material | Plastic | Nickel-plated Gd-Zn |

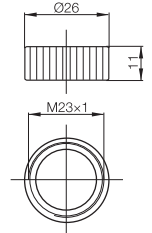
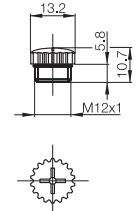
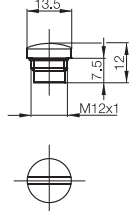
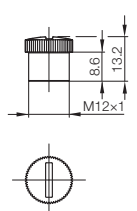
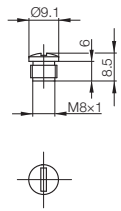


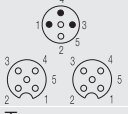
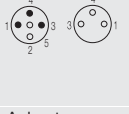
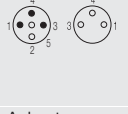
| | | | |
|----------------------|-----------------------------------|--|---|
| Description | Tamperproof cover with 4 openings | Marking sleeve For labeling connectors | Label set Labeling the ports for modules BNI PBS..., BNI PNT..., BNI DNT..., BNI EIP..., BNI CCL... |
| Version | | | |
| Ordering code | | | BAM01AT |
| Part number | BAM FK-NI-003-BPS-01 | BAM IA-CC-002-01 | BNI ACC-L01-000 |
| Housing material | | | Plastic |

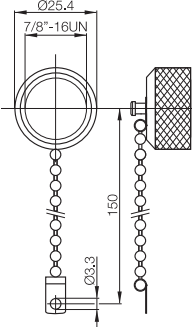
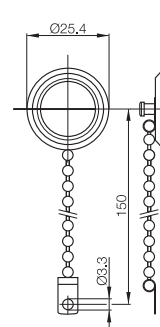
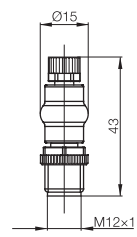
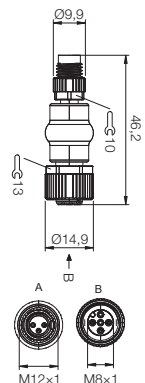
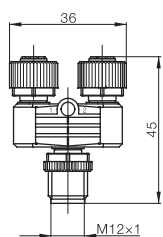


more added value
Customized components for
quick and easy CC-Link installation!

| | | | | | |
|---------------------------|---|---|---|---|---|
| |  |  |  |  |  |
| 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 |
| Ordering code | BAM01C1 | BAM01C2 | BAM0114 | BAM0115 | BAM012P |
| 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 |



| | | | | | |
|---------------------------------------|---|---|---|---------------------------|---------------------------|
| 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 |
| Ordering code | BCC02CL | BCC007W | BCC02CK | | |
| 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 |



- Product topology
- Modules
- Power cables
- Power tee**
- Bus cables
- Bus connectors
- Terminating resistor**
- Accessories**