

# Fieldbus Systems

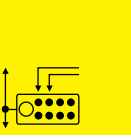
## Fieldbus System: CC-Link

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





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# CC-Link

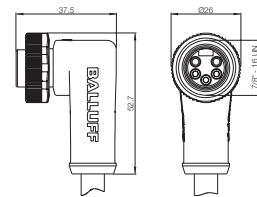
## Power cables 7/8", 5-pin



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>	
	<p>1 _____</p> <p>2 _____</p> <p>3 _____</p> <p>4 _____</p> <p>5 _____</p>	<p>1 _____</p> <p>2 _____</p> <p>3 _____</p> <p>4 _____</p> <p>5 _____</p>	
Type	Female	Female	
Supply voltage $U_b$	300 V DC	300 V DC	
Number of conductors × conductor cross-section	5×1.5 mm <sup>2</sup>	5×1.5 mm <sup>2</sup>	
Degree of protection as per IEC 60529	IP 68	IP 68	
Ambient temperature $T_a$	-25...+80 °C	-25...+80 °C	

Cable material	Color	Length	Ordering code	
			Part number	
PUR	Black	0.6 m		
PUR	Black	2 m	<b>BCC06HC</b> BCC A315-0000-10-063-PX05A5-020	<b>BCC06HH</b> BCC A325-0000-10-063-PX05A5-020
PUR	Black	5 m	<b>BCC06HE</b> BCC A315-0000-10-063-PX05A5-050	<b>BCC06HJ</b> BCC A325-0000-10-063-PX05A5-050
PUR	Black	10 m	<b>BCC06HF</b> BCC A315-0000-10-063-PX05A5-100	<b>BCC06HK</b> BCC A325-0000-10-063-PX05A5-100
PUR	Black	15 m		

Other cable materials, colors, and lengths on request.



# CC-Link

## Power connection cables 7/8", 5-pin



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 Devicenet  
 Ethernet/IP  
 Unmanaged switches

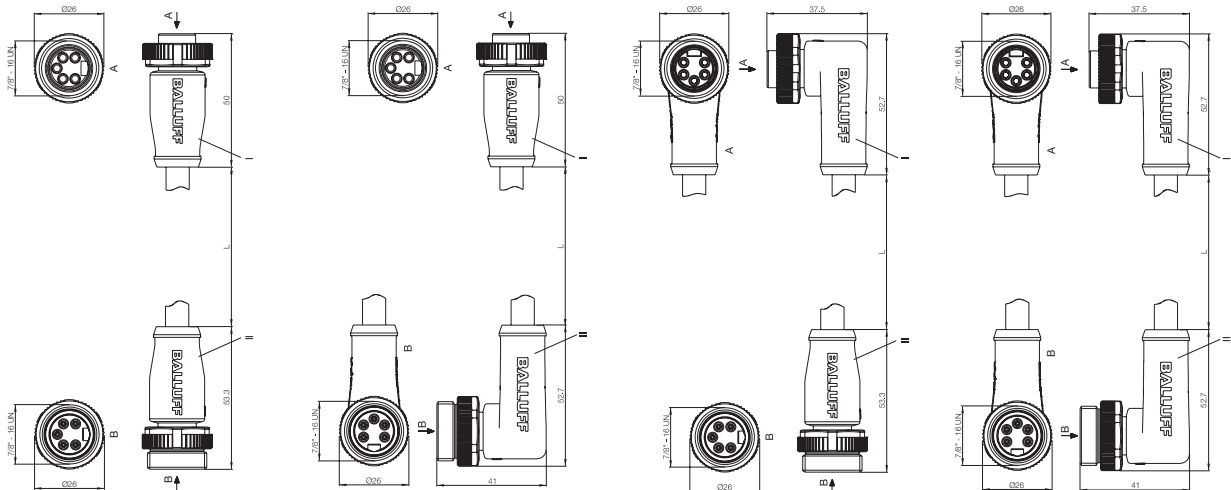


Female/male	Female/male	Female/male	Female/male
300 V DC	300 V DC	300 V DC	300 V DC
5x1.5 mm <sup>2</sup>	5x1.5 mm <sup>2</sup>	5x1.5 mm <sup>2</sup>	5x1.5 mm <sup>2</sup>
IP 68	IP 68	IP 68	IP 68
-25...+80 °C	-25...+80 °C	-25...+80 °C	-25...+80 °C

### Ordering code

Part number

<b>BCC06FM</b> BCC A315-A315-30-335-PX05A5-006	<b>BCC06FU</b> BCC A315-A325-30-335-PX05A5-006	<b>BCC06H1</b> BCC A325-A315-30-335-PX05A5-006	<b>BCC06H6</b> BCC A325-A325-30-335-PX05A5-006
<b>BCC06FN</b> BCC A315-A315-30-335-PX05A5-020	<b>BCC06FW</b> BCC A315-A325-30-335-PX05A5-020	<b>BCC06H2</b> BCC A325-A315-30-335-PX05A5-020	<b>BCC06H7</b> BCC A325-A325-30-335-PX05A5-020
<b>BCC06FP</b> BCC A315-A315-30-335-PX05A5-050	<b>BCC06FY</b> BCC A315-A325-30-335-PX05A5-050	<b>BCC06H3</b> BCC A325-A315-30-335-PX05A5-050	<b>BCC06H8</b> BCC A325-A325-30-335-PX05A5-050
<b>BCC06FR</b> BCC A315-A315-30-335-PX05A5-100	<b>BCC06FZ</b> BCC A315-A325-30-335-PX05A5-100	<b>BCC06H4</b> BCC A325-A315-30-335-PX05A5-100	<b>BCC06H9</b> BCC A325-A325-30-335-PX05A5-100
<b>BCC06FT</b> BCC A315-A315-30-335-PX05A5-150	<b>BCC06H0</b> BCC A315-A325-30-335-PX05A5-150	<b>BCC06H5</b> BCC A325-A315-30-335-PX05A5-150	<b>BCC06HA</b> BCC A325-A325-30-335-PX05A5-150



# CC-Link

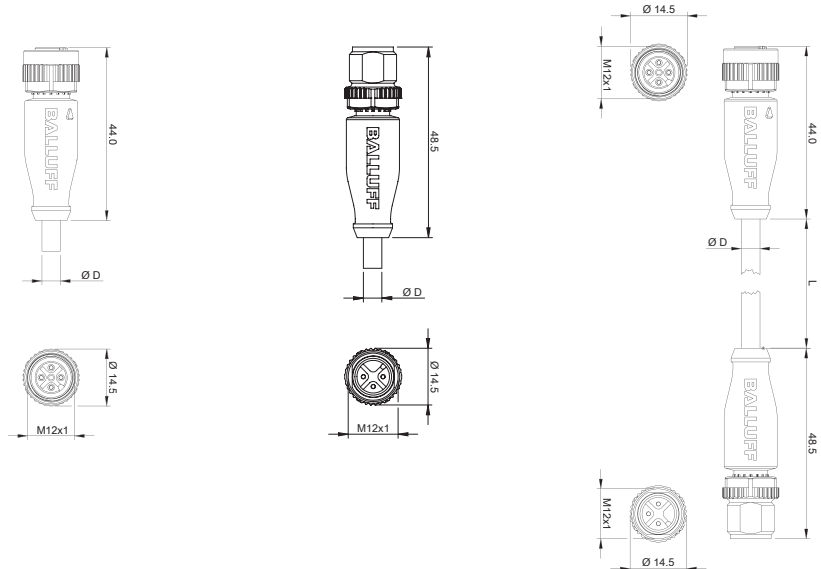
## Bus cable M12, 4-pin, A-coded



Connector diagram and wiring	<p>PIN 1: shield PIN 2: white PIN 3: yellow PIN 4: blue</p>	<p>PIN 1: shield PIN 2: white PIN 3: yellow PIN 4: blue</p>	<p>PIN 1: shield PIN 2: white PIN 3: yellow PIN 4: blue</p>
Type	Female	Male	Female/male
Supply voltage $U_B$	250 V	250 V	250 V
Number of conductors $\times$ conductor cross-section	3 $\times$ 1 $\times$ AWG20	3 $\times$ 1 $\times$ AWG20	3 $\times$ 1 $\times$ AWG20
Degree of protection as per IEC 60529	IP 67	IP 67	IP 67
Ambient temperature $T_a$	-25...+70 °C	-25...+70 °C	-25...+70 °C

Cable material	Color	Length	Ordering code		
			Part number		
PVC		Red	0.6 m		<b>BCC06WU</b> BCC M415-M414-3A-337-VS24N7-006
PVC		Red	2 m	<b>BCC06Y1</b> BCC M415-0000-1A-068-VS24N7-020	<b>BCC084R</b> BCC M414-0000-2A-068-VS24N7-020
PVC		Red	5 m	<b>BCC06Y2</b> BCC M415-0000-1A-068-VS24N7-050	<b>BCC084T</b> BCC M414-0000-2A-068-VS24N7-050
PVC		Red	10 m	<b>BCC06Y3</b> BCC M415-0000-1A-068-VS24N7-100	<b>BCC084U</b> BCC M414-0000-2A-068-VS24N7-100
PVC		Red	15 m		<b>BCC06WZ</b> BCC M415-M414-3A-337-VS24N7-100
					<b>BCC06Y0</b> BCC M415-M414-3A-337-VS24N7-150

Other cable materials, colors and lengths on request.



# CC-Link

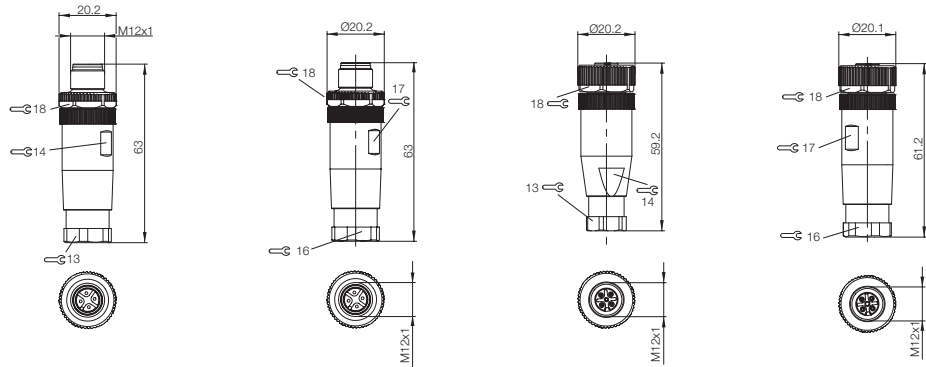
## Bus connector M12, 4-pin, A-coded, User-fabricated, shieldable



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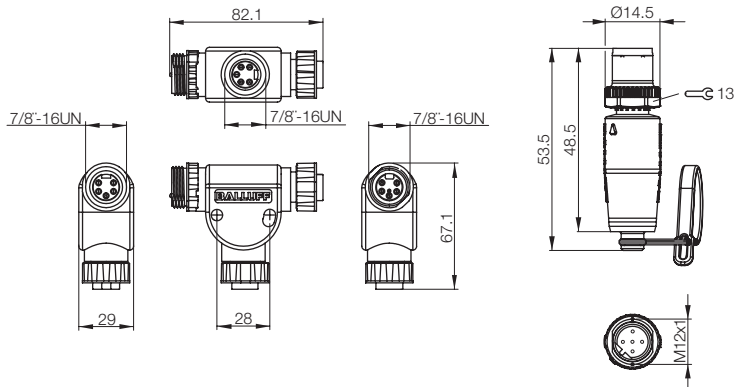
Connector diagram				
Version	M12 male, straight	M12 male, straight	M12 female straight	M12 female straight
Max. supply voltage AC $U_B$	250 V AC	250 V AC	250 V AC	250 V AC
Max. supply voltage DC $U_B$	250 V DC	250 V DC	250 V DC	250 V DC
Cable	User-fabricated	User-fabricated	User-fabricated	User-fabricated
Number of conductors × conductor cross-section	4×0.14...0.75 mm <sup>2</sup>	4×0.14...0.50 mm <sup>2</sup>	4×0.14...0.75 mm <sup>2</sup>	4×0.14...0.50 mm <sup>2</sup>
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 $T_a$	-40...+85 °C	-25...+85 °C	-40...+85 °C	-25...+85 °C

Cable dia.	Ordering code			
	Part number			
6...8 mm	<b>BCC06F7</b> BCC M434-0000-2A-000-51X475-000	<b>BCC06Y5</b> BCC M434-0000-2A-000-55X450-000	<b>BCC06F6</b> BCC M435-0000-1A-000-51X475-000	<b>BCC06Y6</b> BCC M435-0000-1A-000-55X450-000





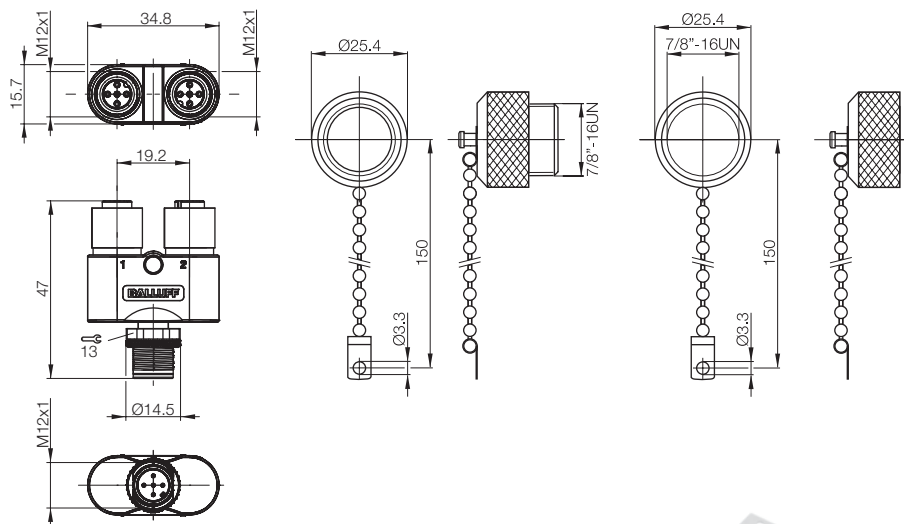
<p>Connector diagram and wiring</p>			
<p>Configuration</p>	<p>7/8" power distributor</p>	<p>M12 terminating resistor</p>	
<p>Version</p>	<p>Standard, 5-pin</p>	<p>A-coded, 5-pin</p>	
<p>Type</p>	<p>Female/male</p>		
<p><b>Ordering code</b></p>	<p><b>BCC0AA7</b></p>	<p><b>BCC06Y4</b></p>	
<p>Part number</p>	<p>BCC A315-A315-A315-T0023-000</p>	<p>BCC M415-0000-2A-R03</p>	
<p>Supply voltage <math>U_b</math></p>	<p>300 V AC</p>	<p>10...30 V DC</p>	
<p>Degree of protection as per IEC 60529</p>	<p>IP 67</p>	<p>IP 67</p>	
<p>Ambient temperature <math>T_a</math></p>	<p>-40...+90 °C</p>	<p>-40...+85 °C</p>	
<p>Housing material</p>	<p>Plastic</p>	<p>Plastic</p>	





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Connector diagram and wiring			
Description	T splitter	Screw plug 7/8"	Screw plug 7/8"
Use	2x M12 female to 1x M12 male	Cover for the power ports	Cover for the power ports
<b>Ordering code</b>	<b>BCC089P</b>	<b>BAM012T</b>	<b>BAM012U</b>
Part number	BCC M415-M415-M415-U0003-000	BKS-7/8-CS-00-A	BKS-7/8-CS-00-I
Supply voltage $U_B$	125 V		
Rated operating current $I_B$	4 A		
Degree of protection as per IEC 60529	IP 67		
Ambient temperature $T_a$	-25...+80 °C	-20...+80 °C	-20...+80 °C
Housing material	PA 6.6 + GF	Nickel-plated CuZn	Nickel-plated CuZn



Description	M12 locking screw	Marking sleeve	Label set
Use	IP 65 screw plug for unused ports	For labeling connectors	Labeling the ports for modules BNI PBS..., BNI PNT..., BNI DNT..., BNI EIP..., BNI CCL...
<b>Ordering code</b>	<b>BAM01C2</b>		<b>BAM01AT</b>
Part number	BAM CS-XA-002-M12-A	BAM IA-CC-002-01	BNI ACC-L01-000
Housing material	Plastic		Plastic