

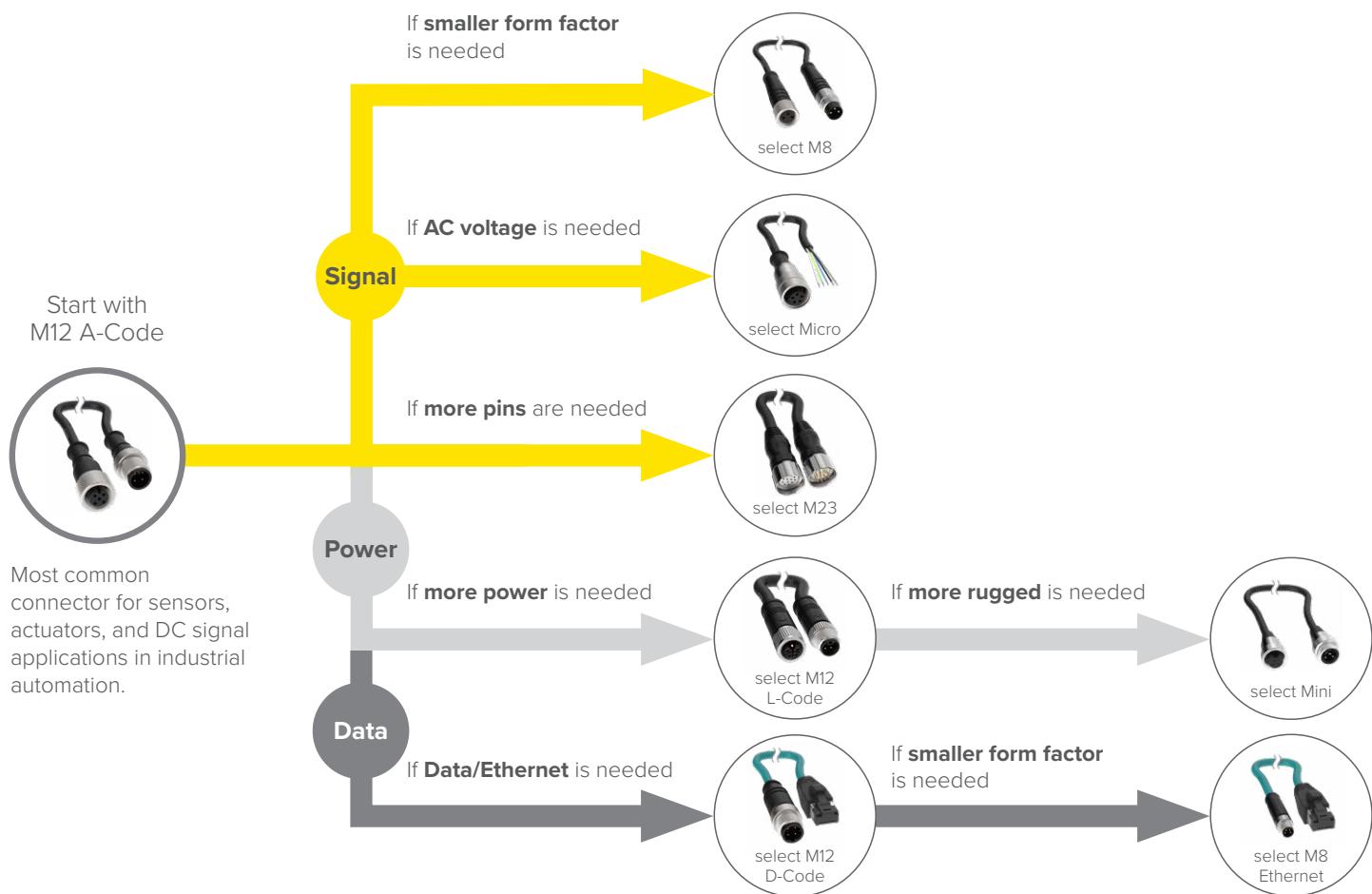
Connectivity Solutions



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Choosing a Banner Cordset



Get Connected with Banner

Banner's connectivity solutions provide reliable, high-performance connections that keep operations running smoothly and efficiently. Our comprehensive portfolio of cordsets, connectors, splitters, junction blocks, customized solutions, and more supports secure transmission of signal, power, and data in a wide range of applications. These, along with custom capabilities, give machine builders the connectivity options to meet any project needs. Engineered for durability and ease of use, Banner's connectivity products simplify installation, minimize downtime, and maintain consistent communication in demanding environments.

Connectivity for Any Need

Special

FEATURES



Lighted



Coiled



Washdown

A Variety Of

CONNECTIONS



M8



M12



M23



Power



Low Temperature



Rugged



Micro



Mini



RJ45

Available In ANY LENGTH

to the nearest 0.1 meter

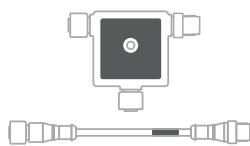


Molex®/TE®

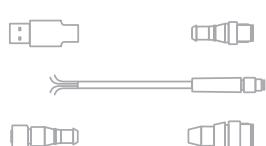


Deutsch®

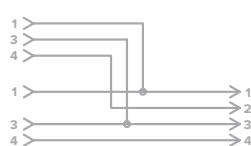
Custom Capabilities



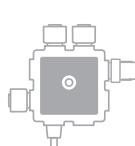
Labeling and
Marking



Connectors and
Specialty Cables



Wiring



Molded
Junction Blocks



Terminations

Guide to Cordset Terms

These terms explain different connector code types and cable protection options, helping you choose the right cordset for your application.

M12 A-Code: Common for sensors and actuators; carries DC power or signals for DeviceNet®, IO-Link®, and other standard control networks

M12 D-Code: Supports 100 Mbps Ethernet communication; used with EtherNet/IP, PROFINET®, EtherCAT®, and Modbus® TCP for reliable data transfer

M12 K-Code: Designed for high-voltage AC power connections (630 V AC, 16A) in motors, drives, and machine power distribution systems

M12 L-Code: Provides up to 16 amps DC power for IO-Link masters, EtherCAT P, and distributed I/O and field power applications

M12 X-Code: Supports high-speed 10 gigabit Ethernet for EtherNet/IP, PROFINET, EtherCAT, and other industrial data networks

TPU: A jacket material that works best for harsh environments, durable polyurethane offers excellent abrasion resistance and chemical resistance

PVC: A jacket material that is ideal for general-purpose industrial applications, cost-effective polyvinyl chloride provides good resistance to oils and abrasion

Shielding: A conductive layer within the cable that protects signal integrity by reducing electrical noise and electromagnetic interference in data and power transmission that may use foil, braid, or both, often with a drain wire for termination; depending on the application, the shield can be bonded to the connector housing, connected to a ground pin, or left floating to match system grounding requirements

Cable Jacket Types at a Glance

Use this table to compare cable jacket types and key characteristics. Choose PVC for general purpose use when environmental demands are minimal.

Condition	Cable Jacket Material				
	PVC	TPU	TPE	HF20	CB60
Temperature Range	-40° to +105 °C	-40° to +90 °C	-40° to +105 °C	-40° to +105 °C	-60° to +90 °C
Abrasion Rating		✓			✓
Flexing Cycles	5 Million +	5 Million +	5 Million +	20 Million +	5 Million +
Cost	\$	\$\$	\$\$	\$\$	\$\$\$
Weld Spatter Resistance			✓		

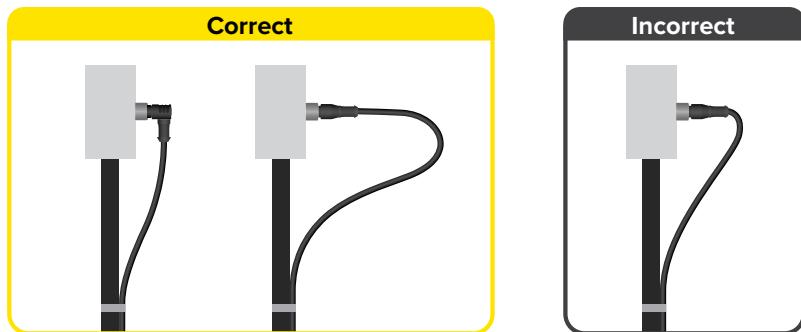
Installation Considerations

Proper Bend Radius in Fixed Applications

Maintaining the proper bend radius helps protect cables from damage and ensures reliable performance over time. In fixed installations, avoid sharp bends by allowing the cordset to form a smooth curve or using right-angle connectors where space is limited.

Bend radius for fixed applications

Non-shielded cordset: 5x cable diameter
Shielded cordset: 10x cable diameter

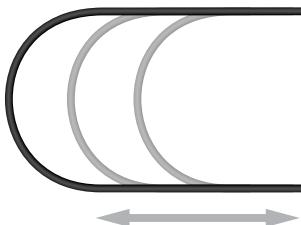


Cabling for Motion Applications

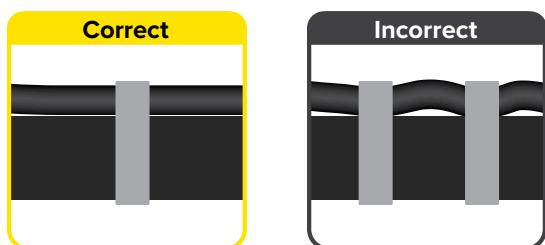
High-flex cordsets are designed for applications with continuous motion, such as robotic arms, c-tracks, and automated machinery. Banner's high-flex cordsets are backed by a 20-million flex cycle warranty for long-lasting performance and reliability.

Minimum Bend Radius for Moving Applications

Non-shielded cordset: 10x cable diameter
Shielded cordset: 15x cable diameter



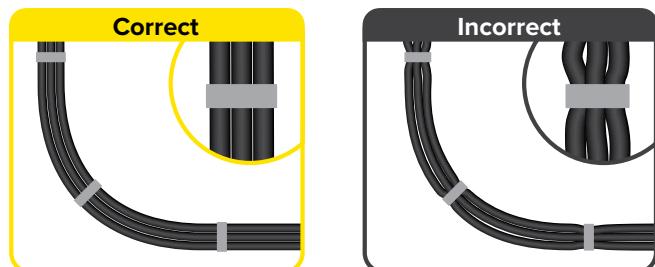
Proper Use Of Cable Ties



When using cable ties, secure them just tightly enough to hold cables in place without compressing or damaging the jacket. Even, moderate tension prevents strain on the conductors and maintains flexibility over time.

Cable Bundling

Proper cable bundling keeps cordsets organized, protected, and easy to service. Group cables that move together and secure them with evenly spaced ties, allowing enough space for natural flexing. Avoid tight or uneven bundles, which can cause abrasion, stress, and premature cable wear.

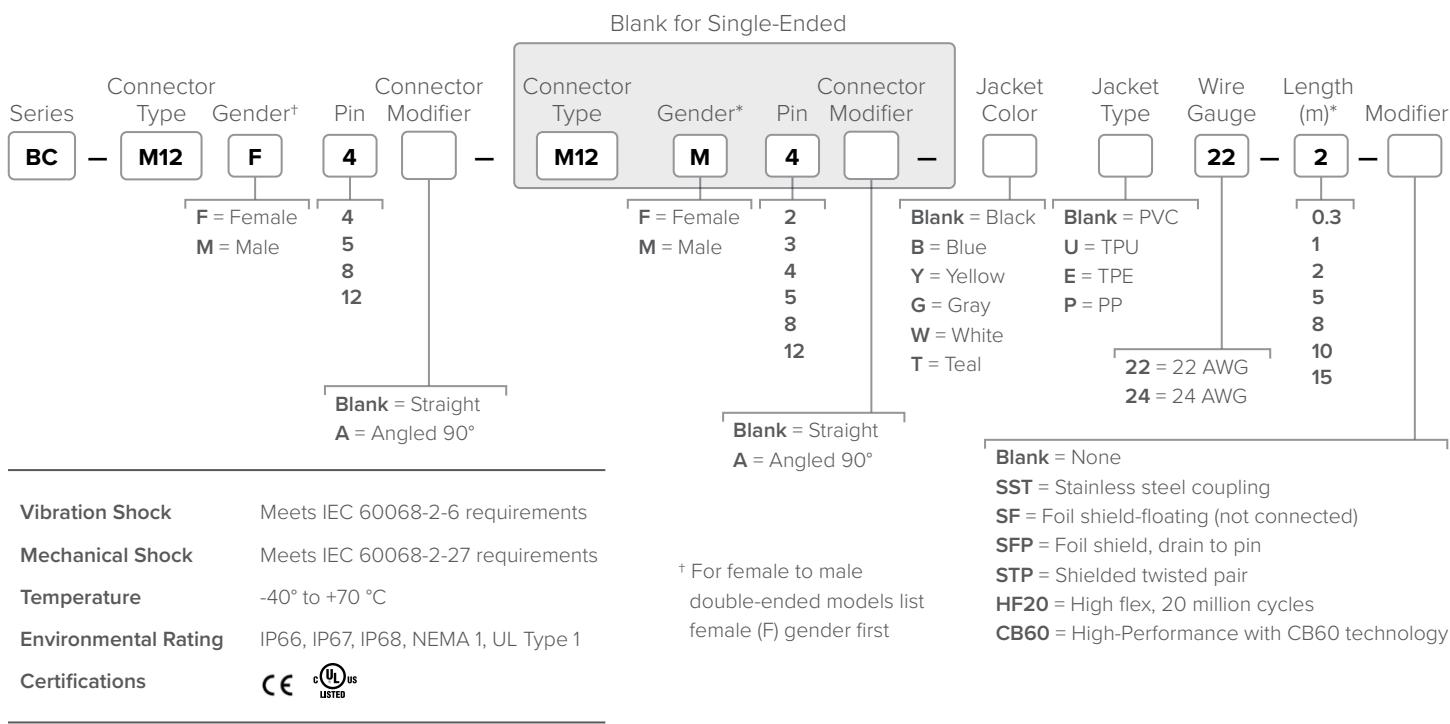


Mounting Holes



Mounting holes on splitters, tees, and junction blocks make installation quick and secure. Mount on a flat surface and tighten fasteners just enough to hold components firmly in place.

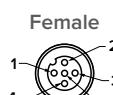
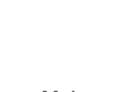
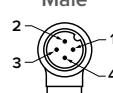
M12 Cordsets: **Signal**



4-Pin PVC A-Code (Voltage: 30 V DC, Current: 4 A, AWG: 22, Cable ø: 5.2 mm)

Description	Length*	Straight	Right-Angle	Pinout
Female QD to Flying Leads	2 m	BC-M12F4-22-2	BC-M12F4A-22-2	
	5 m	BC-M12F4-22-5	BC-M12F4A-22-5	
	10 m	BC-M12F4-22-10	BC-M12F4A-22-10	
Male QD to Flying Leads	2 m	BC-M12M4-22-2	—	
	5 m	BC-M12M4-22-5	—	
	10 m	BC-M12M4-22-10	—	
Description	Length*	Straight/Straight (Female/Male)	Straight/Right-Angle (Female/Male)	
Double-Ended	2 m	BC-M12F4-M12M4-22-2	BC-M12F4-M12M4A-22-2	
	5 m	BC-M12F4-M12M4-22-5	BC-M12F4-M12M4A-22-5	
	10 m	BC-M12F4-M12M4-22-10	BC-M12F4-M12M4A-22-10	

4-Pin High-Performance TPU with CB60 Technology (Voltage: 30 V DC, Current: 4 A, AWG: 22, Cable ø: 5.2 mm)

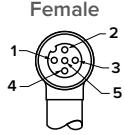
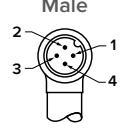
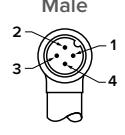
Description	Length*	Straight	Right-Angle	Pinout
Female QD to Flying Leads	2 m	BC-M12F4-U22-2-CB60	BC-M12F4A-U22-2-CB60	
	5 m	BC-M12F4-U22-5-CB60	BC-M12F4A-U22-5-CB60	
	10 m	BC-M12F4-U22-10-CB60	BC-M12F4A-U22-10-CB60	
Male QD to Flying Leads	2 m	BC-M12M4-U22-2-CB60	BC-M12M4A-U22-2-CB60	
	5 m	BC-M12M4-U22-5-CB60	BC-M12M4A-U22-5-CB60	
	10 m	BC-M12M4-U22-10-CB60	BC-M12M4A-U22-10-CB60	
Description	Length*	Straight/Straight (Female/Male)	Straight/Right-Angle (Female/Male)	
Double-Ended	2 m	BC-M12F4-M12M4-U22-2-CB60	BC-M12F4-M12M4A-U22-2-CB60	
	5 m	BC-M12F4-M12M4-U22-2-CB60	BC-M12F4-M12M4A-U22-2-CB60	
	10 m	BC-M12F4-M12M4-U22-2-CB60	BC-M12F4-M12M4A-U22-2-CB60	

M12 Cordsets: Signal

*Custom lengths available.
Please contact Banner for other available styles, and custom capabilities.

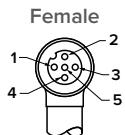
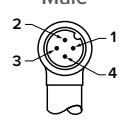
4-Pin PVC High Flex A-Code (Voltage: 30 V DC, Current: 4 A, AWG: 22, Cable ø: 5.2 mm, 20 million cycles)



Description	Length*	Straight	Right-Angle	Pinout
Female QD to Flying Leads	2 m	BC-M12F4-G22-2-HF20	BC-M12F4A-G22-2-HF20	 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Unused
	5 m	BC-M12F4-G22-5-HF20	BC-M12F4A-G22-5-HF20	
	10 m	BC-M12F4-G22-10-HF20	BC-M12F4A-G22-10-HF20	
Male QD to Flying Leads	2 m	BC-M12M4-G22-2-HF20	BC-M12M4A-G22-2-HF20	 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Unused
	5 m	BC-M12M4-G22-5-HF20	BC-M12M4A-G22-5-HF20	
	10 m	BC-M12M4-G22-10-HF20	BC-M12M4A-G22-10-HF20	
Description	Length*	Straight/Straight (Female/Male)	Straight/Right-Angle (Female/Male)	
Double-Ended	2 m	BC-M12F4-M12M4-G22-2-HF20	BC-M12F4A-M12M4A-G22-2-HF20	 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Unused
	5 m	BC-M12F4-M12M4-G22-5-HF20	BC-M12F4A-M12M4A-G22-5-HF20	
	10 m	BC-M12F4-M12M4-G22-10-HF20	BC-M12F4A-M12M4A-G22-10-HF20	

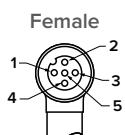
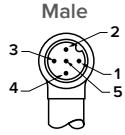
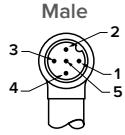
4-Pin PVC With Foil Shield A-Code (Voltage: 30 V DC, Current: 4 A, AWG: 22, Cable ø: 5.2 mm)



Description	Length*	Straight	Right-Angle	Pinout
Female QD to Flying Leads	2 m	BC-M12F4-22-2-SF	BC-M12F4A-22-2-SF	 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Unused
	5 m	BC-M12F4-22-5-SF	—	
	10 m	BC-M12F4-22-10-SF	BC-M12F4A-22-10-SF	
Description	Length*	Straight/Straight (Female/Male)	Straight/Right-Angle (Female/Male)	
Double-Ended	2 m	BC-M12F4-M12M4-22-2-SF	—	 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Unused
	5 m	BC-M12F4-M12M4-22-5-SF	—	
	10 m	BC-M12F4-M12M4-22-10-SF	—	

5-Pin PVC A-Code (Voltage: 30 V DC, Current: 4 A, AWG: 22, Cable ø: 5.6 mm)



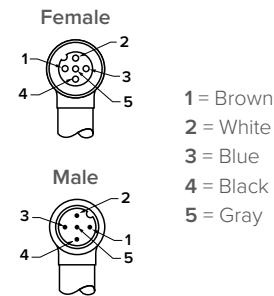
Description	Length*	Straight	Right-Angle	Pinout
Female QD to Flying Leads	2 m	BC-M12F5-22-2	BC-M12F5A-22-2	 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
	5 m	BC-M12F5-22-5	BC-M12F5A-22-5	
	10 m	BC-M12F5-22-10	BC-M12F5A-22-10	
Male QD to Flying Leads	2 m	BC-M12M5-22-2	—	 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
	5 m	BC-M12M5-22-5	—	
	10 m	BC-M12M5-22-10	—	
Description	Length*	Straight/Straight (Female/Male)	Straight/Right-Angle	
Double-Ended	2 m	BC-M12F5-M12M5-22-2	—	 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
	5 m	BC-M12F5-M12M5-22-5	—	
	10 m	BC-M12F5-M12M5-22-10	—	

M12 Cordsets: Signal

5-Pin PVC With Foil Shield A-Code (Voltage: 30 V DC, Current: 4 A, AWG: 22, Cable ø: 5.7 mm)



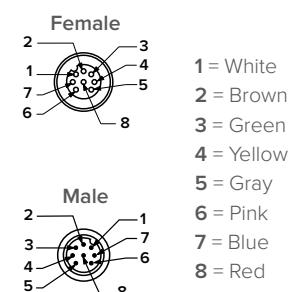
Female QD to Flying Leads	2 m	BC-M12F5-22-2-SF	BC-M12F5A-22-2-SF
	5 m	BC-M12F5-22-5-SF	BC-M12F5A-22-5-SF
	10 m	BC-M12F5-22-10-SF	BC-M12F5A-22-10-SF
Description	Length	Straight/Straight (Female/Male)	Straight/Right-Angle (Female/Male)
Double-Ended	2 m	BC-M12F5-M12M5-22-2-SF	—
	5 m	BC-M12F5-M12M5-22-5-SF	—
	10 m	BC-M12F5-M12M5-22-10-SF	—



8-Pin PVC A-Code (Voltage: 30 V DC, Current: 2 A, AWG: 24, Cable ø: 6.0 mm)



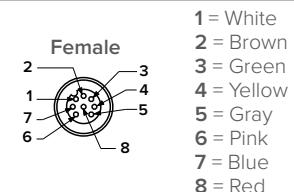
Description	Length	Straight		Right-Angle	Pinout
		Straight	Right-Angle		
Female QD to Flying Leads	2 m	BC-M12F8-24-2	—	—	
	5 m	BC-M12F8-24-5	—	—	
	10 m	BC-M12F8-24-10	—	—	
Male QD to Flying Leads	2 m	BC-M12M8-24-2	—	—	
	5 m	BC-M12M8-24-5	—	—	
	10 m	BC-M12M8-24-10	—	—	
Description	Length	Straight/Straight (Female/Male)	Straight/Right-Angle (Female/Male)	—	—
Double-Ended	2 m	BC-M12F8-M12M8-24-2	—	—	
	5 m	BC-M12F8-M12M8-24-5	—	—	
	10 m	BC-M12F8-M12M8-24-10	—	—	



8-Pin PVC With Foil Shield A-Code (Voltage: 30 V DC, Current: 2 A, AWG: 24, Cable ø: 5.6 mm)



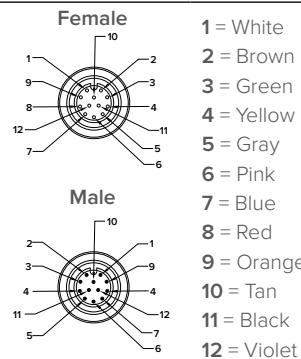
Description	Length	Straight		Right-Angle	Pinout
		Straight	Right-Angle		
Female QD to Flying Leads	2 m	BC-M12F8-24-2-SF	BC-M12F8A-24-2-SF	—	
	5 m	BC-M12F8-24-5-SF	BC-M12F8A-24-5-SF	—	
	10 m	BC-M12F8-24-10-SF	BC-M12F8A-24-10-SF	—	



12-Pin PVC A-Code (Voltage: 30 V DC/AC, Current: 2 A, AWG: 24, Cable ø: 6.3 mm)

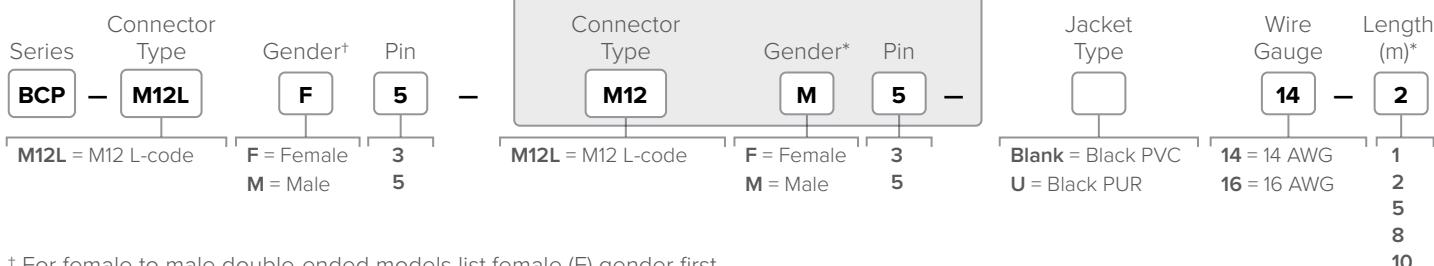


Description	Length	Straight		Right-Angle	Pinout
		Straight	Right-Angle		
Female QD to Flying Leads	2 m	BC-M12F12-24-2	BC-M12F12A-24-2	—	
	5 m	BC-M12F12-24-5	BC-M12F12A-24-5	—	
	10 m	BC-M12F12-24-10	BC-M12F12A-24-10	—	
Description	Length	Straight/Straight (Female/Male)	Straight/Right-Angle (Female/Male)	—	—
Double-Ended	2 m	BC-M12F12-M12M12-24-2	—	—	
	5 m	BC-M12F12-M12M12-24-5	—	—	
	10 m	BC-M12F12-M12M12-24-10	—	—	



M12 Cordsets: Power

*Custom lengths available.
Please contact Banner for other available styles, and custom capabilities.



† For female to male double-ended models list female (F) gender first

Cable Jacket	PVC	Temperature	Fixed installation: -40 °C to +85 °C Flexible installation: -25 °C to +85 °C
Vibration Shock	Meets IEC 60068-2-6 requirements		
Mechanical Shock	Meets IEC 60068-2-27 requirements	Environmental Rating	IP67, IP68

5-Pin L-Code (Voltage: 63 V DC/AC, Current: 16 A, AWG: 14, Cable Ø: 9.6 mm)



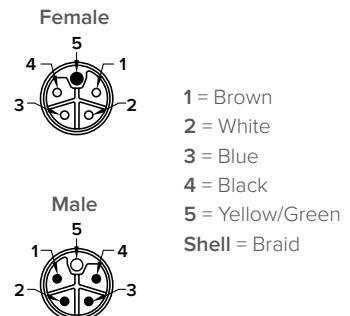
Description	Length*	Straight	Right-Angle	Pinout
Female QD to Flying Leads	2 m	BCP-M12LF5-14-2	BCP-M12LF5A-14-2	
	5 m	BCP-M12LF5-14-5	BCP-M12LF5A-14-5	
	10 m	BCP-M12LF5-14-10	BCP-M12LF5A-14-10	



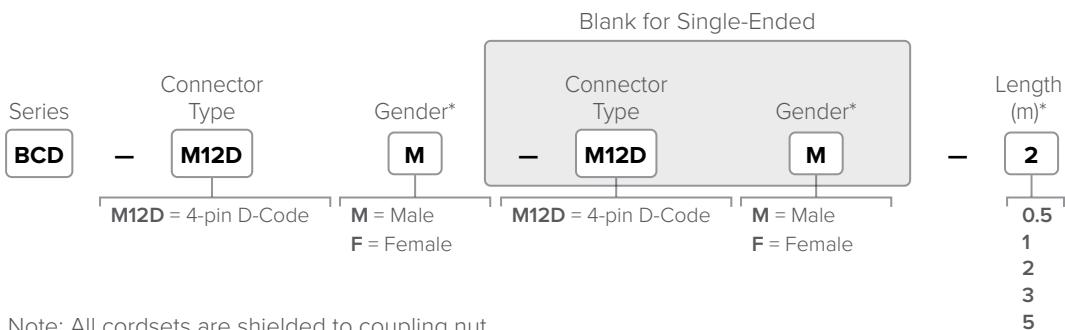
Description	Length*	Straight	Right-Angle	Pinout
Male QD to Flying Leads	2 m	BCP-M12LM5-14-2	BCP-M12LM5A-14-2	
	5 m	BCP-M12LM5-14-5	BCP-M12LM5A-14-5	
	10 m	BCP-M12LM5-14-10	BCP-M12LM5A-14-10	



Description	Length*	Straight/Straight (Female/Male)	Straight/Right-Angle (Female/Male)	Pinout
Double-Ended	2 m	BCP-M12LF5-M12LM5-14-1	–	
	5 m	BCP-M12LF5-M12LM5-14-5	–	
	10 m	BCP-M12LF5-M12LM5-14-10	–	



M12 Cordsets: Data



Note: All cordsets are shielded to coupling nut

† For female to male double-ended models list male (M) gender first

Cable Jacket

PVC

Environmental Rating

IP67

Temperature

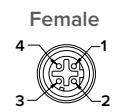
-20° to +70 °C

Certifications

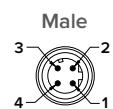


4-Pin D-Code (Voltage: 60 V DC, Current: 4 A, AWG: 22, Cable ø: 7 mm)

Description	Length*	Straight	Right-Angle	Pinout
Female QD to Flying Leads	2 m	BCD-M12DF-2	—	
	5 m	BCD-M12DF-5	—	
	10 m	BCD-M12DF-10	—	
Male QD to Flying Leads	2 m	BCD-M12DM-2	—	
	5 m	BCD-M12DM-5	—	
	10 m	BCD-M12DM-10	—	
Description	Length*	Straight/Straight (Female/Male)	Straight/Straight (Male/Male)	
Double-Ended	2 m	BCD-M12DM-M12DF-2	BCD-M12DM-M12DM-2	
	5 m	BCD-M12DM-M12DF-5	BCD-M12DM-M12DM-5	
	10 m	BCD-M12DM-M12DF-10	BCD-M12DM-M12DM-10	

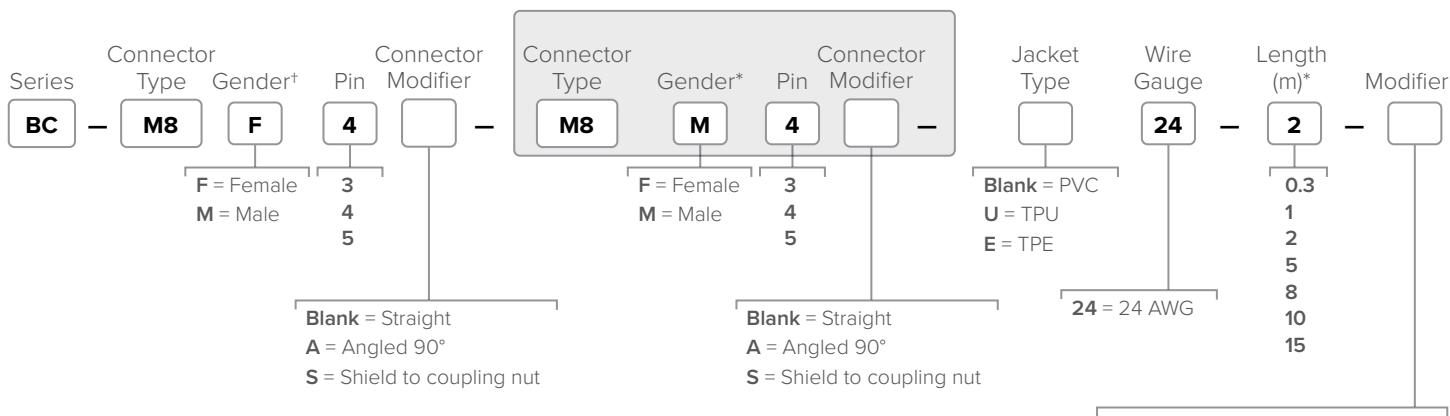


1 = White/orange
2 = Orange
3 = White/blue
4 = Blue



M8 Cordsets: Signal

*Custom lengths available.
Please contact Banner for other available styles, and custom capabilities.



[†] For female to male double-ended models list female (F) gender first

Cable Jacket

PVC

Environmental Rating

IP67

Temperature

-40° to +105 °C

Certifications

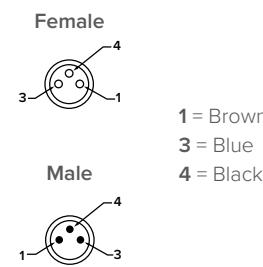


3-Pin A-Code (Voltage: 30 V DC, Current: 2 A, AWG: 24, Cable ø: 4.2 mm)

Description	Length*	Straight	Pinout
Female QD to Flying Leads	2 m	BC-M8F3-24-2	
	5 m	BC-M8F3-24-5	
	10 m	BC-M8F3-24-10	
Male QD to Flying Leads	2 m	BC-M8M3-24-2	
	5 m	BC-M8M3-24-5	
	10 m	BC-M8M3-24-10	
Description	Length*	Straight/Straight (Female/Male)	
Double-Ended	2 m	BC-M8F3-M8M3-24-2	
	5 m	BC-M8F3-M8M3-24-5	
	10 m	BC-M8F3-M8M3-24-10	

Female: 1 = Brown, 3 = Blue, 4 = Black

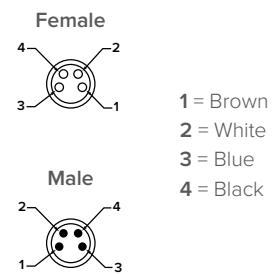
Male: 1 = Brown, 3 = Blue, 4 = Black



M8 Cordsets: Signal

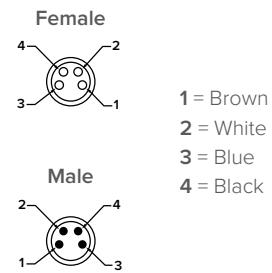
4-Pin A-Code (Voltage: 30 V DC/AC, Current: 2 A, AWG: 24, Cable ø: 4.2 mm)

Description	Length*	Straight	Right-Angle	Pinout
Female QD to Flying Leads	2 m	BC-M8F4-24-2	—	
	5 m	BC-M8F4-24-5	—	
	10 m	BC-M8F4-24-10	—	
Male QD to Flying Leads	2 m	BC-M8M4-24-2	—	
	5 m	BC-M8M4-24-5	—	
	10 m	BC-M8M4-24-10	—	
Description	Length*	Straight/Straight (Female/Male)	Straight/Right-Angle (Female/Male)	
Double-Ended	2 m	BC-M8F3-M8M3-24-2	—	
	5 m	BC-M8F3-M8M3-24-5	—	
	10 m	BC-M8F3-M8M3-24-10	—	



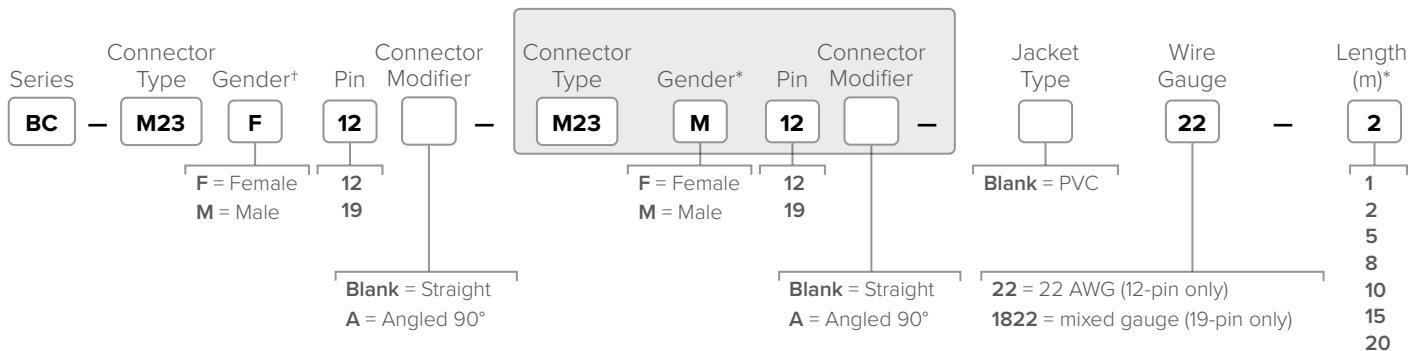
4-Pin High Flex A-Code (Voltage: 30 V DC, Current: 4 A, AWG: 24, Cable ø: 4.7 mm, 20 million cycles)

Description	Length*	Straight	Right-Angle	Pinout
Female QD to Flying Leads	2 m	BC-M8F4-G24-2-HF20	BC-M8F4A-G24-2-HF20	
	5 m	BC-M8F4-G24-5-HF20	BC-M8F4A-G24-5-HF20	
	10 m	BC-M8F4-G24-10-HF20	BC-M8F4A-G24-10-HF20	
Male QD to Flying Leads	2 m	BC-M8M4-G24-2-HF20	—	
	5 m	BC-M8M4-G24-5-HF20	—	
	10 m	BC-M8M4-G24-10-HF20	—	
Description	Length*	Straight/Straight (Female/Male)	Straight/Right-Angle (Female/Male)	
Double-Ended	2 m	BC-M8F4-M8M4-G24-2-HF20	—	
	5 m	BC-M8F4-M8M4-G24-5-HF20	—	
	10 m	BC-M8F4-M8M4-G24-10-HF20	—	



M23 Cordsets: Signal

*Custom lengths available.
Please contact Banner for other available styles, and custom capabilities.



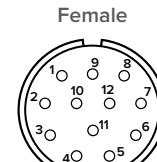
[†] For female to male double-ended models list female (F) gender first

Cable Jacket	PVC	Environmental Rating	IP67 and IP68
Temperature	-25° to +85 °C	Certifications	CE

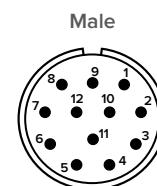
12-Pin (Voltage: 60 V DC, Current: 4 A, AWG: 22, Cable ø: 6 mm)



Description	Length*	Straight	Right-Angle	Pinout
Female QD to Flying Leads	2 m	BC-M23F12-22-2	BC-M23F12A-22-2	
	5 m	BC-M23F12-22-5	BC-M23F12A-22-5	
	10 m	BC-M23F12-22-10	BC-M23F12A-22-10	
Male QD to Flying Leads	2 m	BC-M23M12-22-2	—	
	5 m	BC-M23M12-22-5	—	
	10 m	BC-M23M12-22-10	—	
Description	Length*	Straight/Straight (Female/Male)	Straight/Right-Angle (Female/Male)	
Double-Ended	2 m	BC-M23F12-M23M12-22-2	—	
	5 m	BC-M23F12-M23M12-22-5	—	
	10 m	BC-M23F12-M23M12-22-10	—	



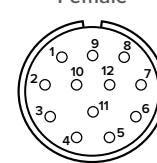
1 = White
2 = Brown
3 = Green
4 = Yellow
5 = Gray
6 = Pink
7 = Blue
8 = Red
9 = Orange
10 = Tyrian Purple
11 = Black
12 = Violet



12-Pin With Foil Shield (Voltage: 60 V DC, Current: 4 A, AWG: 22, Cable ø: 6 mm)



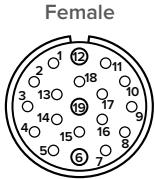
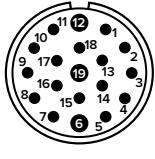
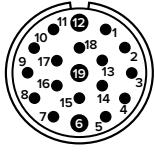
Description	Length*	Straight	Right-Angle	Pinout
Female QD to Flying Leads	2 m	BC-M23F12-22-2-SFP	BC-M23F12A-22-2-SFP	
	5 m	BC-M23F12-22-5-SFP	BC-M23F12A-22-5-SFP	
	10 m	BC-M23F12-22-10-SFP	BC-M23F12A-22-10-SFP	



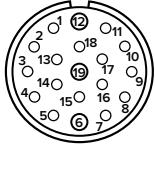
1 = White
2 = Brown
3 = Green
4 = Yellow
5 = Gray
6 = Pink
7 = Blue
8 = Red
9 = Orange
10 = Tyrian Purple
11 = Black
12 = Violet

M23 Cordsets: Signal

19-Pin (Voltage: 60 V DC, Current: 8 A, AWG: 18 and 22, Cable ø: 9.8 mm)

Description	Length*	Straight	Pinout
Female QD to Flying Leads	2 m	BC-M23F19-1822-2	 Female 1 = Purple 2 = Red 3 = Gray 4 = Red/Blue 5 = Green 6 = Blue (18 AWG) 7 = Gray/Pink 8 = White/Green 9 = White/Yellow 10 = White/Gray 11 = Black 12 = Green/Yellow (18 AWG) 13 = Yellow/Brown 14 = Brown/Green 15 = White 16 = Yellow 17 = Pink 18 = Gray/Brown 19 = Brown (18 AWG)
	5 m	BC-M23F19-1822-5	
	10 m	BC-M23F19-1822-10	
Male QD to Flying Leads	2 m	BC-M23M19-1822-2	 Male 1 = Purple 2 = Red 3 = Gray 4 = Red/Blue 5 = Green 6 = Blue (18 AWG) 7 = Gray/Pink 8 = White/Green 9 = White/Yellow 10 = White/Gray 11 = Black 12 = Green/Yellow (18 AWG) 13 = Yellow/Brown 14 = Brown/Green 15 = White 16 = Yellow 17 = Pink 18 = Gray/Brown 19 = Brown (18 AWG)
	5 m	BC-M23M19-1822-5	
	10 m	BC-M23M19-1822-10	
Description	Length*	Straight/Straight (Female/Male)	
Double-Ended	2 m	BC-M23F19-M23M19-1822-2	 Male 1 = Purple 2 = Red 3 = Gray 4 = Red/Blue 5 = Green 6 = Blue (18 AWG) 7 = Gray/Pink 8 = White/Green 9 = White/Yellow 10 = White/Gray 11 = Black 12 = Green/Yellow (18 AWG) 13 = Yellow/Brown 14 = Brown/Green 15 = White 16 = Yellow 17 = Pink 18 = Gray/Brown 19 = Brown (18 AWG)
	5 m	BC-M23F19-M23M19-1822-5	
	10 m	BC-M23F19-M23M19-1822-10	

19-Pin With Foil Shield (Voltage: 60 V DC, Current: 8 A, AWG: 18 and 22, Cable ø: 9.8 mm)

Description	Length*	Straight	Pinout
Female QD to Flying Leads	2 m	BC-M23F19-1822-2-SFP	 Female 1 = Purple 2 = Red 3 = Gray 4 = Red/Blue 5 = Green 6 = Blue (18 AWG) 7 = Gray/Pink 8 = White/Green 9 = White/Yellow 10 = White/Gray 11 = Black 12 = Green/Yellow (18 AWG) 13 = Yellow/Brown 14 = Brown/Green 15 = White 16 = Yellow 17 = Pink 18 = Gray/Brown 19 = Brown (18 AWG)
	5 m	BC-M23F19-1822-5-SFP	
	10 m	BC-M23F19-1822-10-SFP	

Specialty Cordsets: RJ45 Data

*Custom lengths available.
Please contact Banner for other available styles, and custom capabilities.

Series	Connector Type [†]	Gender	Connector Type	Length (m)*
BCD	RJ45	M	RJ45	2
	M12D = 4-pin D-Code	M = Male	RJ45 = 8-pin RJ45	0.5
	M8 = 4-pin	Blank = RJ45		1
	RJ45 = 8-pin RJ45			2
				3
				5

Note: All cordsets are shielded to coupling nut

[†] For M12/M8 to RJ45 double-ended models list M12/M8 connector first

Cable Jacket

PVC

Environmental Rating

IP20

Temperature

-20° to +70 °C

Certifications



4-Pin D-Code (Voltage: 60 V DC/AC, Current: 1.5 A, AWG: 22, M12 Cable ø: 7 mm, M8 Cable ø: 5.8 mm)

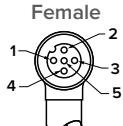
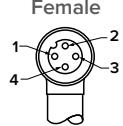
Description	Length*	Straight	Pinout
M12 Double-Ended Male QD to RJ45	2 m	BCD-M12DM-RJ45-2	M12 Male
	5 m	BCD-M12DM-RJ45-5	
	10 m	BCD-M12DM-RJ45-10	
M8 Double-Ended Male QD to RJ45	2 m	BCD-M8M-RJ45-2	M8 Male
	5 m	BCD-M8M-RJ45-5	
	10 m	BCD-M8M-RJ45-10	
Description	Length*	Straight/Straight (Female/Male)	
Double-Ended RJ45	2 m	BCD-RJ45-RJ45-2	RJ45
	5 m	BCD-RJ45-RJ45-5	
	10 m	BCD-RJ45-RJ45-10	

1 = White/orange
2 = Orange
3 = White/green
4 = Green

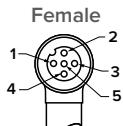
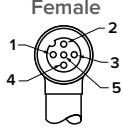
Specialty Cordsets: M12 Lighted

Cable Jacket	PVC	Temperature	Max current of 1.0 A: -40 to +60 °C
Vibration Shock	Meets IEC 60068-2-6 requirements		Max current of 2.0 A: -40 to +55 °C
Mechanical Shock	Meets IEC 60068-2-27 requirements	Environmental Rating	Max current of 4.0 A: -40 to +45 °C
LED Operation	Green LED indicates power ON; Yellow LED overrides green LED when pin 4 is active	Certifications	IP66, IP67, IP68, NEMA 1, UL Type 1   

4-Pin A-Code (Voltage: 10 to 30 V DC at 15 mA max, AWG: 22, Cable ø: 5.2 mm)

	Length*	Straight	Right-Angle	Pinout
 PNP Female QD to Flying Leads	2 m	MQDC-406-GYP	MQDC-406-GYPRA	 1 = Brown 2 = White 3 = Blue 4 = Black (output LED) 5 = Unused
	5 m	MQDC-415-GYP	MQDC-415-GYPRA	
	9 m	MQDC-430-GYP	MQDC-430-GYPRA	
 NPN Female QD to Flying Leads	2 m	MQDC-406-GYN	MQDC-406-GYNRA	 1 = Brown 2 = White 3 = Blue 4 = Black (output LED) 5 = Unused
	5 m	MQDC-415-GYN	MQDC-415-GYNRA	
	9 m	MQDC-430-GYN	MQDC-430-GYNRA	

5-Pin A-Code (Voltage: 10 to 30 V DC at 15 mA max, AWG: 22, Cable ø: 5.6 mm)

	Length*	Straight	Right-Angle	Pinout
 PNP Female QD to Flying Leads	2 m	MQDC-506-GYP	MQDC-506-GYPRA	 1 = Brown 2 = White 3 = Blue 4 = Black (output LED) 5 = Gray
	5 m	MQDC-515-GYP	MQDC-515-GYPRA	
	9 m	MQDC-530-GYP	MQDC-530-GYPRA	
 NPN Female QD to Flying Leads	2 m	MQDC-506-GYN	MQDC-506-GYNRA	 1 = Brown 2 = White 3 = Blue 4 = Black (output LED) 5 = Gray
	5 m	MQDC-515-GYN	MQDC-515-GYNRA	
	9 m	MQDC-530-GYN	MQDC-530-GYNRA	

Specialty Cordsets: M12 Coiled

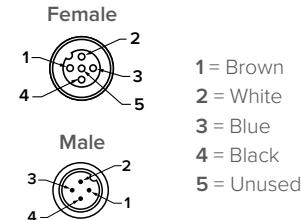
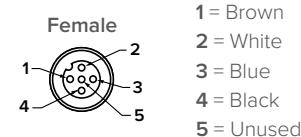
*Custom lengths available.
Please contact Banner for other available styles, and custom capabilities.

Cable Jacket	PVC	Temperature	-40° to +105 °C
Vibration Shock	Meets IEC 60068-2-6 requirements	Environmental Rating	IP67, IP69, NEMA 1, 3, 4, 6P, 13
Mechanical Shock	Meets IEC 60068-2-27 requirements		

4-Pin A-Code (Voltage: 60 V DC, Current: 4 A, AWG: 22, Cable ø: 5.2 mm)



Description	Length*	Straight	Pinout
Female QD to Flying Leads	0.8 to 1.7 m	MQDC-401.7M-PUR-C	
	1.0 to 2.6 m	MQDC-402.6M-PUR-C	
	1.2 to 3.3 m	MQDC-403.3M-PUR-C	
Description	Length*	Straight/Straight (Female/Male)	Pinout
Double-Ended	0.8 to 1.7 m	MQDEC-401.7M-PUR-C	
	1.0 to 2.6 m	MQDEC-403.3M-PUR-C	



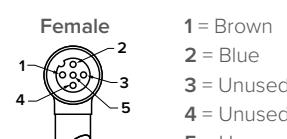
Specialty Cordsets: M12 Namur

Cable Jacket	PVC	Temperature	-40 °C to +70 °C
Vibration Shock	Meets IEC 60068-2-6 requirements	Environmental Rating	IP67, NEMA 1, 3, 4, 6P, 13
Mechanical Shock	Meets IEC 60068-2-27 requirements	Certifications	CE

4-Pin A-Code (Voltage: 60 V DC/AC, Current: 4 A, AWG: 20, Cable ø: 5.2 mm)



Description	Length*	Straight	Right-Angle	Pinout
Female QD to Flying Leads	2 m	MQD9-406	MQD9-406RA	
	5 m	MQD9-415	MQD9-415RA	
	9 m	MQD9-430	MQD9-430RA	



Specialty Cordsets: M12 High Pressure and Temperature Washdown

Cable Jacket	PVC	Temperature	-40° to +70 °C
Vibration Shock	Meets IEC 60068-2-6 requirements	Environmental Rating	IP66, IP67, IP68, IP69, NEMA 1, UL Type 1
Mechanical Shock	Meets IEC 60068-2-27 requirements	Certifications	ECOLAB test F and E Nr. 40-1

4-Pin A-Code (Voltage: 60 V DC, Current: 4 A, AWG: 22, Cable ø: 4.8 mm)



Description	Length*	Straight	Pinout
Female QD to Flying Leads	2 m	MQDC-WDSS-0406	
	5 m	MQDC-WDSS-0415	
	9 m	MQDC-WDSS-0430	
Double-Ended	Length*	Straight/Straight (Female/Male)	Pinout
	0.31 m	MQDEC-WDSS-401SS	
	0.91 m	MQDEC-WDSS-403SS	
	1.83 m	MQDEC-WDSS-406SS	
	3.7 m	MQDEC-WDSS-412SS	



5-Pin A-Code (Voltage: 60 V DC, Current: 4 A, AWG: 22, Cable ø: 5.16 mm)



Description	Length*	Straight	Pinout
Female QD to Flying Leads	2 m	MQDC-WDSS-0506	
	5 m	MQDC-WDSS-0515	
	9 m	MQDC-WDSS-0530	
Double-Ended	Length*	Straight/Straight (Female/Male)	Pinout
	1.5 m	MQDEC-WDSS-505SS	
	3 m	MQDEC-WDSS-510SS	
	4.57 m	MQDEC-WDSS-515SS	

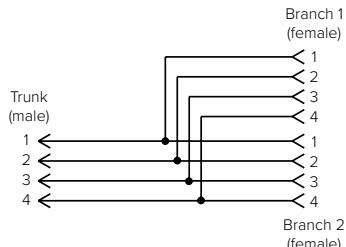


M12: Splitters, Tees, and Junction Blocks

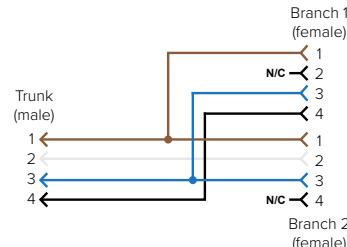
*Custom lengths available.
Please contact Banner for other available styles, and custom capabilities.

Round QD Splitters

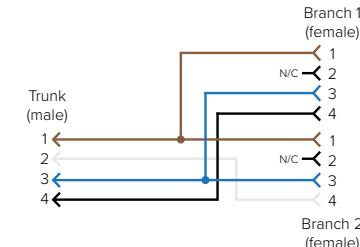
Example of Parallel 4-Pin Wiring



S15YA24-M124-M124-0.2M
Non-parallel 4-Pin Wiring



S15YA4-M124-M124-0.2M
Non-parallel 4-Pin Wiring



4-Pin A-Code

(Voltage: 30 V DC/AC, Current: 2 A, AWG: 4 x 22, Cable ø: 5.5 mm, Temperature: -40 °C to +105 °C, Environmental Rating: IP68)



Cable Lengths*		Straight	Right-Angle	Wiring	Pinout
Trunk (Male)	Branches (Female)				
No Trunk/ Integral M12 QD	0.3 m	CSRB-M1240M1241	—	Parallel	M12 Male (Trunk)
	0.6 m	CSRB-M1240M1242	—	Parallel	
	0.9 m	CSRB-M1240M1243	—	Parallel	
	1.2 m	CSRB-M1240M1244	—	Parallel	

4-Pin A-Code

(Voltage: 30 V DC/AC, Current: 4 A, AWG: 4 x 22, Cable ø: 5.2 mm, Temperature: -40 °C to +70 °C, Environmental Rating: IP67)



No Trunk/ Integral M12 QD	0.2 m	S15YA24-M124-M124-0.2M	—	See above	M12 Female (Branch)
	0.3 m	S15YA24-M124-M124-0.3	S15YA24-M124A-M124A-0.3	See above	
	1 m	S15YA24-M124-M124-1	S15YA24-M124A-M124A-1	See above	
	0.2 m	S15YA4-M124-M124-0.2M	—	Discrete	
	0.3 m	S15YA4-M124-M124-0.3	S15YA4-M124A-M124A-0.3	Discrete	
	1 m	S15YA4-M124-M124-1	S15YA4-M124A-M124A-1	Discrete	
	0.2 m	S15YB-M124-M124-0.2M	—	Parallel	
	0.3 m	S15YB-M124-M124-0.3	S15YB-M124A-M124A-0.3	Parallel	
	1 m	S15YB-M124-M124-1	S15YB-M124A-M124A-1	Parallel	

4-Pin A-Code

(Voltage: 30 V DC/AC, Current: 2 A, AWG: 4 x 24, Cable ø: 4.2 mm, Temperature: -40 °C to +70 °C, Environmental Rating: IP67)



No Trunk/ Integral M12 QD	0.3 m (3-pin M8)	S15YA4-M83-M83-0.3	—	Discrete	M8 3-Pin Female (Branch)
	1 m (3-pin M8)	S15YA4-M83-M83-1	—	Discrete	
	0.3 m (3-pin M8)	S15YB-M83-M83-0.3	—	Parallel	
	1 m (3-pin M8)	S15YB-M83-M83-1	—	Parallel	
	0.3 m (4-pin M8)	S15YA24-M84-M84-0.3	—	See above	
	1 m (4-pin M8)	S15YA24-M84-M84-1	—	See above	
	0.3 m (4-pin M8)	S15YA4-M84-M84-0.3	—	Discrete	
	1 m (4-pin M8)	S15YA4-M84-M84-1	—	Discrete	
	0.3 m (4-pin M8)	S15YB-M84-M84-0.3	—	Parallel	
	1 m (4-pin M8)	S15YB-M84-M84-1	—	Parallel	

5-Pin A-Code

(Voltage: 30 V DC/AC, Current: 2 A, AWG: 5 x 22, Cable ø: 5.6 mm, Temperature: -40 °C to +105 °C, Environmental Rating: IP67)



Cable Lengths*		Models	Pinout
Trunk (Male)	Branches (Female)		
No Trunk/ Integral QD	Branch 1 0.14 m Branch 2 0.22 m	CSRB-M1250M125.47M125.73	

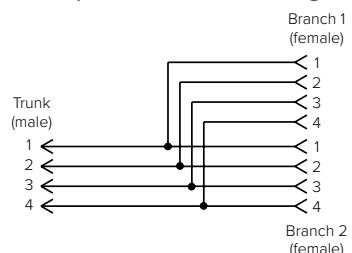
M12: Splitters, Tees, and Junction Blocks

Compact QD Splitters and Tees

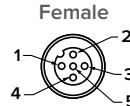
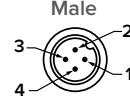
Overmold Black PUR
Temperature -40 °C to +105 °C

Environmental Rating IP67

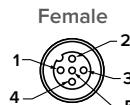
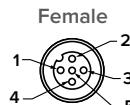
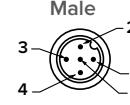
Example of Parallel 4-Pin Wiring



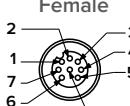
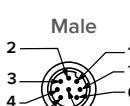
4-Pin A-Code (Voltage: 30 V DC/AC, Current: 4 A, AWG: 22)

Ports	Models	Pinout
 1 x Male 2 x Female	CSB-M1240M1240	 

5-Pin A-Code (Voltage: 30 V DC/AC, Current: 4 A, AWG: 22)

Ports	Models	Pinout
 1 x Male 1 x Female 1 x Female	CSB-M1250M1250-T	
 1 x Male 2 x Female	CSB-M1250M1250A	
 1 x Female 1 x Male 1 x Female	CSB-M1250M1250	

8-Pin A-Code (Voltage: 30 V DC/AC, Current: 1 A, AWG: 22)

Ports	Models	Pinout
 1 x Male 2 x Female	CSB-M1280M1280	 

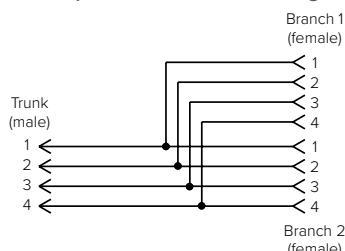
M12: Splitters, Tees, and Junction Blocks

*Custom lengths available.
Please contact Banner for other available styles, and custom capabilities.

Flat QD Splitters

Cable Jacket	PVC	Temperature	-40 °C to +105 °C
Overmold	Black PUR	Environmental Rating	IP67

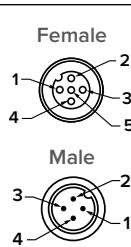
Example of Parallel 4-Pin Wiring



4-Pin A-Code (Voltage: 30 V DC/AC, Current: 4 A, AWG: 22, Trunk Cable ø: 4.4 mm, Branch Cable ø: 5.5 mm)



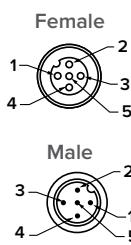
Cable Lengths*		Models	Pinout
Trunk (Male)	Branches (Female)		
No Trunk/Integral QD	2 x 0.3 m	CSB-M1240M1241	
0.3 m	2 x 0.3 m	CSB-M1241M1241	
1 m	2 x 1 m	CSB-M1243M1243	
2.4 m	2 x 0.3 m	CSB-M1248M1241	
4.6 m	2 x 0.3 m	CSB-M12415M1241	
7.6 m Unterminated	2 x 0.3 m	CSB-UNT425M1241	



5-Pin A-Code (Voltage: 30 V DC/AC, Current: 4 A, AWG: 22, Cable ø: 5.9 mm)



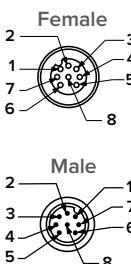
Cable Lengths*		Models	Pinout
Trunk	Branches		
0.3 m (Male)	2 x 0.3 m (Female)	CSB-M1251M1251B	
0.3 m (Female)	2 x 0.3 m (Male)	CSB-M1251FM1251M	



8-Pin A-Code (Voltage: 30 V DC/AC, Current: 2 A, AWG: 22, Cable ø: 6 mm)



Cable Lengths*		Models	Pinout
Trunk (Male)	Branches (Female)		
0.3 m	2 x 0.3 m	CSB-M1281M1281B	

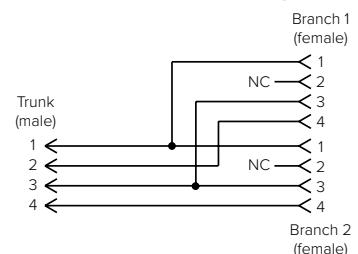


M12: Splitters, Tees, and Junction Blocks

Wiring Splitters

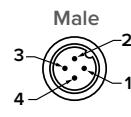
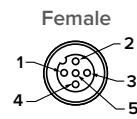
Cable Jacket	PVC	Temperature	-40 °C to +70 °C
Overmold	Black PUR	Environmental Rating	IP67

Example of 4-Pin Wiring



4-Pin A-Code (Voltage: 30 V DC/AC, Current: 4 A, AWG: 22, Cable ø: 5.9 mm)

Cable Lengths*		Models	Pinout
Trunk (Male)	Branches (Female)		
No Trunk/Integral QD	2 x 0.3 m	CSA-M1240M1241	
No Trunk/Integral QD	2 x 1 m	CSA-M1240M1243	
No Trunk/Integral QD	2 x 2 m	CSA-M1240M1246	
0.3 m	2 x 0.3 m	CSA-M1241M1241	
1 m	2 x 1 m	CSA-M1243M1243	
2 m	2 x 2 m	CSA-M1246M1246	



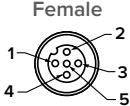
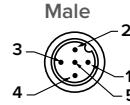
M12: Splitters, Tees, and Junction Blocks

*Custom lengths available.
Please contact Banner for other available styles, and custom capabilities.

Multi-port Splitters

Cable Jacket	PVC	Temperature	-40 °C to +105 °C
Overmold	Black PUR	Environmental Rating	IP67

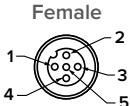
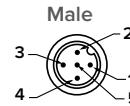
5-Pin A-Code (Voltage: 30 V DC/AC, Current: 4 A, AWG: 4 x 22, Cable ø: 5.6 mm)

Cable Lengths*		Models	Pinout
Branches (Female)	Trunk (Male)		
4 x No Branch/Integral QD	0.3 m	CSB4-M1251M1250	 

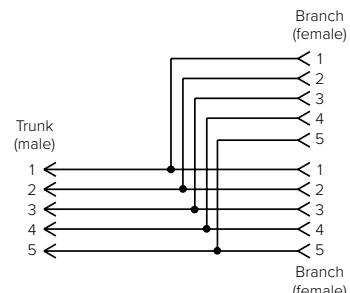
Molded Junction Blocks

Overmold	Black PUR	Environmental Rating	IP65, IP67, and IP68
Temperature	-40 °C to +70 °C		

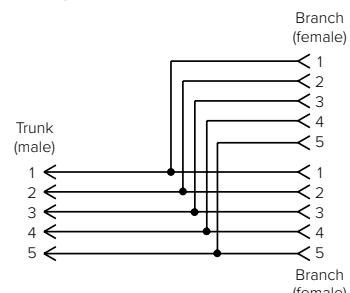
5-Pin (Voltage: 60 V DC/AC, Current: 4 A)

Connections	Models	Pinout
4 x Female M12 1 x Male M12	R50-4M125-M125Q-P	
8 x Female M12 1 x Male M12	R95-8M125-M125Q-P	

Example of Parallel 5-Pin Wiring
(diagram applies to all branches)



Example of Parallel 5-Pin Wiring
(diagram applies to all branches)



M12: Splitters, Tees, and Junction Blocks

Molded I/O Junction Blocks

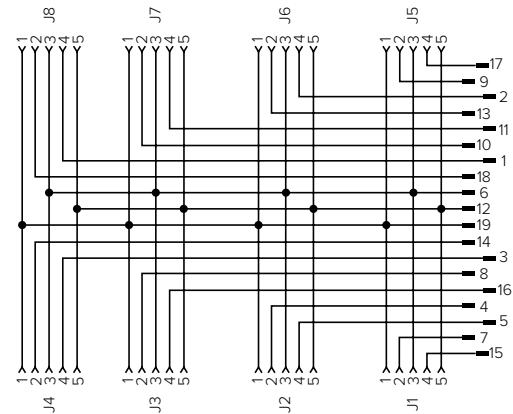
Temperature -40°C to $+70^{\circ}\text{C}$

Environmental Rating IP67

Certifications

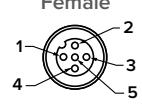


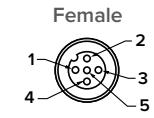
Wiring Diagram



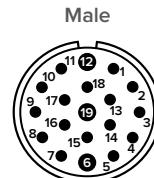
5-Pin

(Voltage: 30 V DC/AC, Current: 8 A total per connector, AWG: 18 and 22, Cable ϕ : 9.2 mm)

Cable Lengths*		LED	Models	Pinout
Branches (Female)	Trunk			
8 x No Branch/ Integral QD	1 m with Flying Leads	PNP LED	R95-8M125-C1-D24P	 1 = Purple 2 = Red 3 = Gray 4 = Red/Blue 5 = Green
	2 m with Flying Leads		R95-8M125-C2-D24P	
	5 m with Flying Leads		R95-8M125-C5-D24P	
	10 m with Flying Leads		R95-8M125-C10-D24P	
	0.3 m 19-pin M23 Male QD		R95-8M125-0.3M23-D24P	
	1 m with Flying Leads	No LED	R95-8M125-C1-D24	
	2 m with Flying Leads		R95-8M125-C2-D24	
	5 m with Flying Leads		R95-8M125-C5-D24	
	10 m with Flying Leads		R95-8M125-C10-D24	
	0.3 m 19-pin M23 Male QD		R95-8M125-0.3M23-D24	



- 1 = Purple
- 2 = Red
- 3 = Gray
- 4 = Red/Blue
- 5 = Green
- 6 = Blue (18 AWG)
- 7 = Gray/Pink
- 8 = White/Green
- 9 = White/Yellow
- 10 = White/Gray
- 11 = Black
- 12 = Green/Yellow (18 AWG)
- 13 = Yellow/Brown
- 14 = Brown/Green
- 15 = White
- 16 = Yellow
- 17 = Pink
- 18 = Gray/Brown
- 19 = Brown (18 AWG)



M12: Splitters, Tees, and Junction Blocks

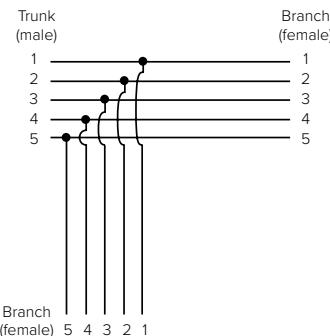
*Custom lengths available.
Please contact Banner for other available styles, and custom capabilities.

Power Junction Blocks

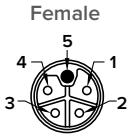
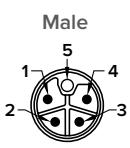
Temperature -40°C to $+70^{\circ}\text{C}$

Environmental Rating IP65, IP67, IP68

Example of Parallel Wiring



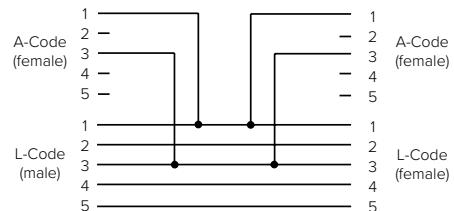
5-Pin L-Code (Voltage: 60 V DC, Current: 16 A)

Ports	Models	Pinout
 1x L-code male M12 2x L-code female M12	R50-2M125L-M125-P	 
 1x L-code male M12 2x L-code female M12	R50T-2M125L-M125-P	

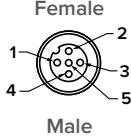
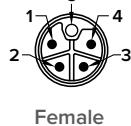
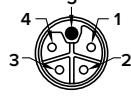
Temperature -40°C to $+70^{\circ}\text{C}$

Environmental Rating IP65, IP67, IP68

Certifications 



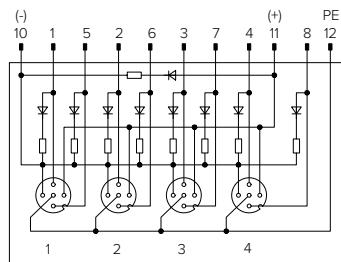
5-Pin L-Code to A-Code (Voltage: 63 V DC, Current: 4 A A-Code, 16 A L-Code)

Power Connections	Power Drops	Model	Pinout
 1x L-code male M12 1x L-code female M12	2 x A-code female M12	R50-M12LM5-M12LF5-2M12F5-P13	  

M12: Splitters, Tees, and Junction Blocks

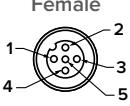
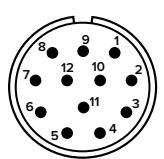
I/O Junction Blocks

Wiring Diagram

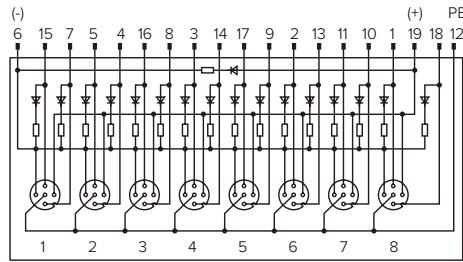


Temperature -25°C to $+80^{\circ}\text{C}$
Environmental Rating IP67

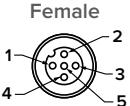
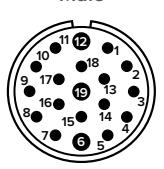
4 Port 5-Pin (LED Voltage: 30 V DC/AC, Non-LED Voltage: 60 V DC/AC, Current: 2 A per port (6 A total))

Description	Output	Indication	Models	Pinout
5-Pin to 12-Pin	PNP	LED	JB-4M12-M23-P24	
	NPN	LED	JB-4M12-M23-N24	
	Discrete	Non-LED	JB-4M12-M23-24	

Wiring Diagram



8 Port 5-Pin (LED Voltage: 30 V DC/AC, Non-LED Voltage: 60 V DC/AC, Current: 2 A per port (6 A total))

Description	Output	Indication	Models	Pinout
5-Pin to 19-Pin	PNP	LED	JB-8M12-M23-P24	
	NPN	LED	JB-8M12-M23-N24	
	Discrete	Non-LED	JB-8M12-M23-24	

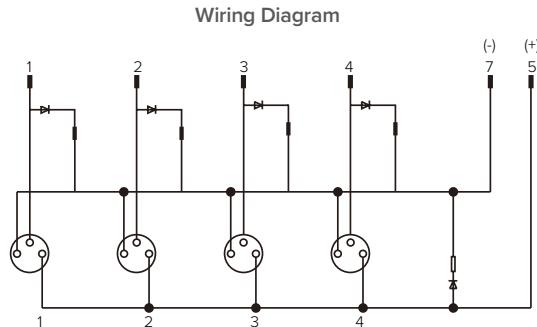
M12: Splitters, Tees, and Junction Blocks

*Custom lengths available.
Please contact Banner for other available styles, and custom capabilities.

I/O Junction Blocks

Temperature -25°C to $+80^{\circ}\text{C}$

Environmental Rating IP67

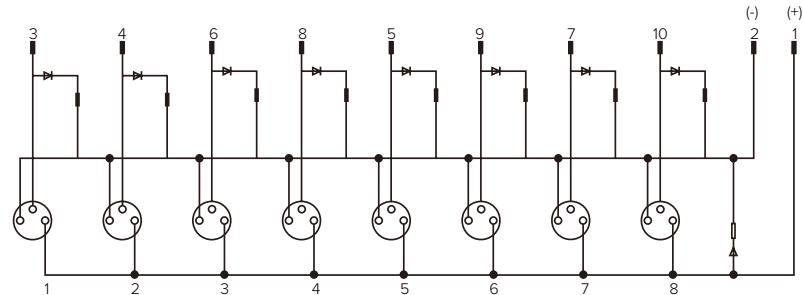


4 Port 3-Pin (LED Voltage: 30 V DC/AC, Non-LED Voltage: 60 V DC/AC, Current: 2 A per port (6 A total))



Description	Output	Indication	Models	Pinout
3-Pin to 8-Pin	PNP	LED	JB-4M8-M12-P4	
	NPN	LED	JB-4M8-M12-N4	
	Discrete	Non-LED	JB-4M8-M12-4	

Wiring Diagram



8 Port 3-Pin (LED Voltage: 30 V DC/AC, Non-LED Voltage: 60 V DC/AC, Current: 1 A per port (3 A total))

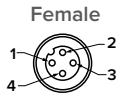
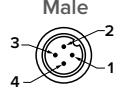


Description	Output	Indication	Models	Pinout
3-Pin to 12-Pin	PNP	LED	JB-8M8-M12-P4	
	NPN	LED	JB-8M8-M12-N4	
	Discrete	Non-LED	JB-8M8-M12-4	

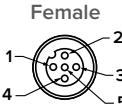
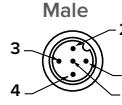
M12 Connectors: Field Wireable

Terminal	Screw	Temperature	-40° to +85 °C
		Environmental Rating	IP68

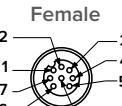
4-Pin (Voltage: 60 V DC/AC, Current: 4 A, Max AWG: 22, Cable ø: 4-6 mm)

Description	Straight	Right-Angle	Pinout
Female Screw Terminal	BFW-M12F4-6X	BFW-M12F4A-6X	 Female
Male Screw Terminal	BFW-M12M4-6X	BFW-M12M4A-6X	 Male

5-Pin (Voltage: 60 V DC/AC, Current: 4 A, Max AWG: 22, Cable ø: 4-6 mm)

Description	Straight	Right-Angle	Pinout
Female Screw Terminal	BFW-M12F5-6X	BFW-M12F5A-6X	 Female
Male Screw Terminal	BFW-M12M5-6X	BFW-M12M5A-6X	 Male

8-Pin (Voltage: 30 V DC/AC, Current: 2 A, Max AWG: 22, Cable ø: 4-6 mm)

Description	Straight	Right-Angle	Pinout
Female Screw Terminal	BFW-M12F8-8X	BFW-M12F8A-8X	 Female
Male Screw Terminal	BFW-M12M8-8X	BFW-M12M8A-8X	 Male

M12 Connectors: Field Wireable Slide Lock

*Custom lengths available.
Please contact Banner for other available styles, and custom capabilities.

Terminal	Slide Lock	Temperature	-40° to +85 °C
		Environmental Rating	IP68



Slide Lock Terminal

4-Pin (Voltage: 60 V DC/AC, Current: 4 A, AWG: 20-24, Cable ø: 4-6 mm)



Description	Straight	Right-Angle	Pinout
Female Slide Lock Terminal	BFW-M12F4-6SL	BFW-M12F4A-6SL	<p>Female</p> <p>1 2 3 4</p>
Male Slide Lock Terminal	BFW-M12M4-6SL	BFWM12M4A-6SL	<p>Male</p> <p>3 2 1 4</p>



5-Pin (Voltage: 60 V DC/AC, Current: 4 A, AWG: 20-24, Cable ø: 4-6 mm)



Description	Straight	Right-Angle	Pinout
Female Slide Lock Terminal	BFW-M12F5-6SL	BFW-M12F5A-6SL	<p>Female</p> <p>1 2 3 4 5</p>
Male Slide Lock Terminal	BFW-M12M5-6SL	BFWM12M5A-6SL	<p>Male</p> <p>3 2 1 4 5</p>



M12 Connectors: Ethernet Shielded Field Wireable

Terminal	Slide Lock	Temperature	-40° to +85 °C
		Environmental Rating	IP67



Description	Straight	Pinout
Female Slide Lock Terminal	BFW-M12XF8-9X	<p>Female</p> <p>3 4 5 6 1 8 7 2</p>
Male Slide Lock Terminal	BFW-M12XM8-9X	<p>Male</p> <p>5 4 3 2 6 1 7 8</p>



1 = White/orange
2 = Orange
3 = White/green
4 = Green
5 = White/brown
6 = Brown
7 = White/blue
8 = Blue

M8 Connectors: **Field Wireables**

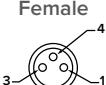
Temperature -25° to +90 °C

Environmental Rating IP67

3-Pin Insulation Displacement

(Voltage: 60 V DC/AC, Current: 4 A, Maximum AWG: 24, Temperature: -25° to +70 °C, Cable ø: 4-5 mm)

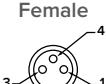


Description	Straight	Right-Angle	Pinout
Female Insulation Displacement	FIC-M8F3	FIC-M8F3A	
Male Insulation Displacement	FIC-M8M3	FIC-M8M3A	

3-Pin Screw Terminal

(Voltage: 60 V DC/AC, Current: 3 A, Maximum AWG: 24, Temperature: -25° to +90 °C, Cable ø: 3.5-5 mm)

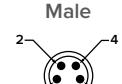


Description	Straight	Right-Angle	Pinout
Female Screw Terminal	BFW-M8F3-4X	BFW-M8F3A-4X	
Male Screw Terminal	BFW-M8M3-4X	BFW-M8M3A-4X	

4-Pin Insulation Displacement

(Voltage: 60 V DC/AC, Current: 4 A, Maximum AWG: 24, Temperature: -25° to +70 °C, Cable ø: 4-5 mm)

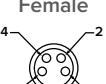
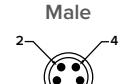


Description	Straight	Right-Angle	Pinout
Female Insulation Displacement	FIC-M8F4	FIC-M8F4A	
Male Insulation Displacement	FIC-M8M4	FIC-M8M4A	

4-Pin Screw Terminal

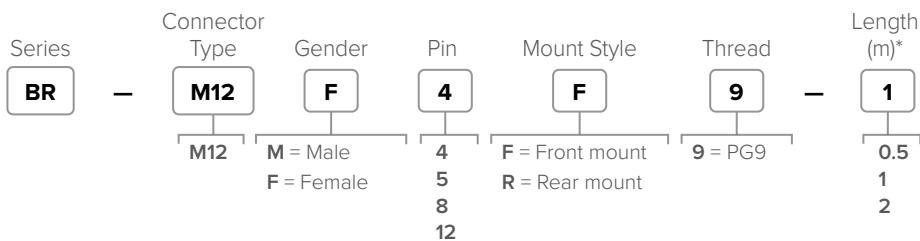
(Voltage: 30 V DC/AC, Current: 3 A, Maximum AWG: 24, Temperature: -25° to +90 °C, Cable ø: 3.5-5 mm)



Description	Straight	Right-Angle	Pinout
Female Screw Terminal	BFW-M8F4-4X	BFW-M8F4A-4X	
Male Screw Terminal	BFW-M8M4-4X	BFW-M8M4A-4X	

M12 Connectors: Receptacles

*Custom lengths available.
Please contact Banner for other available styles, and custom capabilities.



Temperature

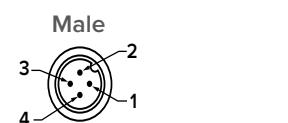
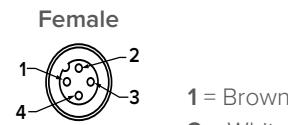
-20° to +70 °C

Environmental Rating

IP67

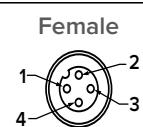
4-Pin (Voltage: 250 V DC/AC, Current: 4 A, AWG: 22)

Description	Length*	Model	Pinout
Front Mount Female QD to Flying Leads	1 m	BR-M12F4F9-1	
Rear Mount Female QD to Flying Leads	1 m	BR-M12F4R9-1	
Front Mount Male QD to Flying Leads	1 m	BR-M12M4F9-1	
Rear Mount Male QD to Flying Leads	1 m	BR-M12M4R9-1	



5-Pin (Voltage: 60 V DC, Current: 4 A, AWG: 22)

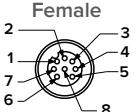
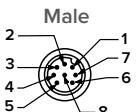
Description	Length*	Model	Pinout
Front Mount Female QD to Flying Leads	1 m	BR-M12F5F9-1	
Rear Mount Female QD to Flying Leads	1 m	BR-M12F5R9-1	
Front Mount Male QD to Flying Leads	1 m	BR-M12M5F9-1	
Rear Mount Male QD to Flying Leads	1 m	BR-M12M5R9-1	



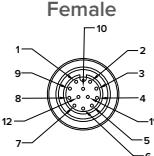
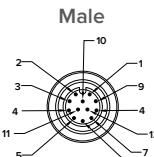
1 = Brown
2 = White
3 = Blue
4 = Black

M12 Connectors: **Receptacles**

8-Pin (Voltage: 30 V DC, Current: 2 A, AWG: 24)

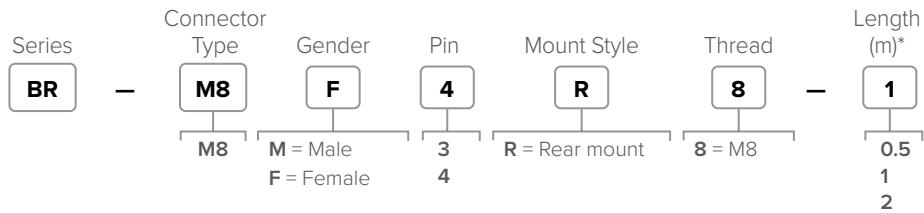
Description	Length*	Model	Pinout
Front Mount Female QD to Flying Leads	1 m	BR-M12F8F9-1	 1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red
Rear Mount Female QD to Flying Leads	1 m	BR-M12F8R9-1	
Front Mount Male QD to Flying Leads	1 m	BR-M12M8F9-1	 1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red
Rear Mount Male QD to Flying Leads	1 m	BR-M12M8R9-1	

12-Pin (Voltage: 30 V DC, Current: 1.5 A, AWG: 26)

Description	Length*	Model	Pinout
Front Mount Female QD to Flying Leads	0.5 m	BR-M12F12F9-0.5	 1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red 9 = Orange 10 = Plum 11 = Black 12 = Violet
Rear Mount Female QD to Flying Leads	0.5 m	BR-M12F12R9-0.5	
Front Mount Male QD to Flying Leads	0.5 m	BR-M12M12F9-0.5	 1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red 9 = Orange 10 = Plum 11 = Black 12 = Violet
Rear Mount Male QD to Flying Leads	0.5 m	BR-M12M12R9-0.5	

M8 Connectors: Receptacles

*Custom lengths available.
Please contact Banner for other available styles, and custom capabilities.



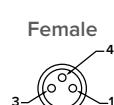
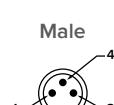
Temperature

-20° to +70 °C

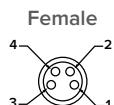
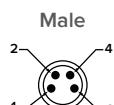
Environmental Rating

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3-Pin Rear Mount (Voltage: 60 V DC/50 V AC, Current: 3 A, AWG: 24)

Description	Length*	Model	Pinout
 Female QD to Flying Leads	1 m	BR-M8F3R8-1	 1 = Brown 2 = White 3 = Blue 4 = Black
 Male QD to Flying Leads	1 m	BR-M8M3R8-1	 1 = Brown 2 = White 3 = Blue 4 = Black

4-Pin Rear Mount (Voltage: 60 V DC/50 V AC, Current: 3 A, AWG: 24)

Description	Length*	Model	Pinout
 Female QD to Flying Leads	1 m	BR-M8F4R8-1	 1 = Brown 2 = White 3 = Blue 4 = Black
 Male QD to Flying Leads	1 m	BR-M8M4R8-1	 1 = Brown 2 = White 3 = Blue 4 = Black

Smarter Automation. Better Solutions.™

Banner Engineering designs and manufactures industrial automation products including sensors and measurement devices; lighting, indicators, and displays; connectivity technology; condition monitoring solutions; machine safety products; industrial wireless systems; remote I/O; plus barcode scanners and machine vision. By listening to customers and engineering solutions that remove production constraints so they can achieve operational goals, Banner is an integral part of making many of the things we use every day, from food and medicine to cars and electronics. In fact, a high-quality, reliable Banner product is installed somewhere around the world every two seconds. Headquartered in Minneapolis since 1966, Banner is an industry leader with more than 10,000 products, operations on five continents, and a worldwide team of more than 5,500 employees and partners. Our dedication to innovation and personable service makes Banner a trusted source of smart automation technologies to customers around the globe.

