

# Connectivity Quick Ship



Banner Engineering's growing list of connectivity products are priced right and available for immediate delivery. This guide is designed to easily select the product for your application with stock readily available for immediate shipment. Banner Engineering's offering of M8 and M12 cordsets, splitters, field wireables, junction boxes, and IO-Link hubs continues to expand to meet your automation needs.

For the entire Banner connectivity offering, go to [www.bannerengineering.com](http://www.bannerengineering.com)

**BANNER**<sup>®</sup>  
more sensors, more solutions

# M12 4-Pin Cordsets

## M12 4-Pin Black PVC/PUR Cable, 4 x 22 Awg

	Length	Straight	Right-Angle
Female Single Ended	1 m (3.2 ft)	MQDC-403	—
	2 m (6.5 ft)	MQDC-406	MQDC-406RA
	2 m (6.5 ft)	MQDC-406-PUR	MQDC-406RA-PUR
	3 m (9.8 ft)	MQDC-410	—
	5 m (16.4 ft)	MQDC-415	MQDC-415RA
	5 m (16.4 ft)	MQDC-415-PUR	—
	9 m (29.5 ft)	MQDC-430	MQDC-430RA
	9 m (29.5 ft)	MQDC-430-PUR	—
	15 m (49.2 ft)	MQDC-450	MQDC-450RA
Male Single Ended	2 m (6.5 ft)	MQDMC-406	MQDMC-406RA
	5 m (16.4 ft)	MQDMC-415	MQDMC-415RA
	9 m (29.5 ft)	MQDMC-430	MQDMC-430RA
	15 m (49.8 ft)	—	MQDMC-450RA
Female Single Ended Shielded	2 m (6.5 ft)	MQDEC2-406	MQDEC2-406RA
	5 m (16.4 ft)	MQDEC2-415	MQDEC2-415RA
	9 m (29.5 ft)	MQDEC2-430	MQDEC2-430RA
Double-Ended	Length	Straight/Straight (female/male)	PUR Straight/Straight (female/male)
	0.3 m (1 ft)	MQDEC-401SS	—
	0.9 m (3 ft)	MQDEC-403SS	MQDEC-403SS-PUR
	1.8 m (6 ft)	MQDEC-406SS	MQDEC-406SS-PUR
	3 m (9.8 ft)	MQDEC-410SS	—
	3.6 m (12 ft)	MQDEC-412SS	—
	4.5 m (15 ft)	MQDEC-415SS	MQDEC-415SS-PUR
	6.1 m (20 ft)	MQDEC-420SS	—
	9.2 m (30 ft)	MQDEC-430SS	MQDEC-430SS-PUR

## M12 4-Pin Washdown Black PVC Cable, 4 x 22 Awg

	Length	Straight
Single Ended	2 m (6.5 ft)	MQDC-WDSS-0406
	5 m (16.4 ft)	MQDC-WDSS-0415
	9 m (29.5 ft)	MQDC-WDSS-0430
Double-Ended	Length	Straight/Straight
	0.9 m (3 ft)	MQDEC-WDSS-403SS
	1.8 m (6 ft)	MQDEC-WDSS-406SS
	9.2 m (30 ft)	MQDEC-WDSS-430SS

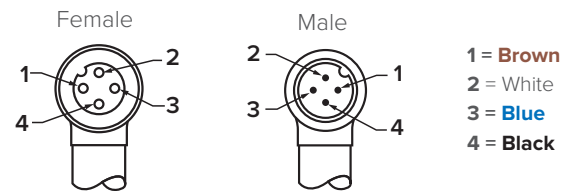
## M12 4-Pin Namur Blue PVC Cable, 4 x 20 Awg

	Length	Straight	Right-Angle
Female Single Ended Namur	2 m (6.5 ft)	MQD9-406	MQD9-406RA
	5 m (16.4 ft)	MQD9-415	MQD9-415RA
	9 m (29.5 ft)	MQD9-430	MQD9-430RA

## PVC and Washdown Cordsets



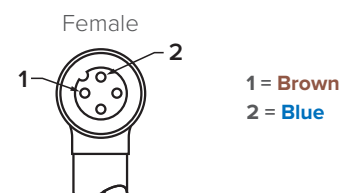
## PVC and Washdown Pinout



## Namur Cordsets



## Namur Pinout



# M12 5-Pin Cordsets

## M12 5-Pin Black PVC/PUR Cable, 5 x 22 Awg

	Length	Straight	Right-Angle
Female Single Ended	2 m (6.5 ft)	MQDC1-506	MQDC1-506RA
	5 m (16.4 ft)	MQDC1-515	MQDC1-515RA
	9 m (29.5 ft)	MQDC1-530	MQDC1-530RA
	10 m (32.8 ft)	—	MQDC-530RA

Female Single Ended Shielded	1.6 m (6 ft)	MQDC-STP-506	—
	2 m (6.5 ft)	MQDEC2-506	MQDEC2-506RA
	4.5 m (15 ft)	MQDC-STP-515	—
	5 m (16.4 ft)	MQDEC2-515	MQDEC2-515RA
	9 m (29.5 ft)	MQDEC2-530	MQDEC2-530RA
	9.2 m (30 ft)	MQDC-STP-530	—

	Length	Straight/Straight (female/male)	Straight/Right-Angle (female/male)
Double-Ended	0.3 m (1 ft)	MQDEC-501SS	MQDEC-501RS
	0.9 m (3 ft)	MQDEC-503SS	MQDEC-503RS
	1.8 m (6 ft)	MQDEC-506SS	MQDEC-506RS
	3.6 m (12 ft)	MQDEC-512SS	MQDEC-512RS
	4.5 m (15 ft)	MQDEC-515SS	—
	9.2 m (30 ft)	MQDEC-530SS	MQDEC-530RS

## 5-Pin Washdown Black PVC Cable, 5 x 22 Awg

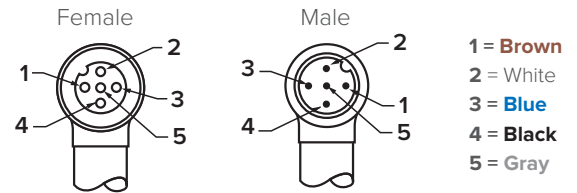
	Length	Straight
Single Ended	2 m (6.5 ft)	MQDC-WDSS-0506
	5 m (16.4 ft)	MQDC-WDSS-0515

Single Ended Shielded	9 m (29.5 ft)	MQDCWD-530
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## Cordsets



## Pinout



# M12 8-Pin Cordsets

## M12 8-Pin Black PVC/PUR Cable, 8 x 24 Awg

	Length	Straight	Right-Angle
Female Single Ended Shielded	2 m (6.5 ft)	MQDC2S-806	MQDC2S-806RA
	5 m (16.4 ft)	MQDC2S-815	MQDC2S-815RA
	5 m (16.4 ft)	MQDC-815	—
	9 m (29.5 ft)	MQDC2S-830	MQDC2S-830RA
	10 m (32.8 ft)	MAQDC-830	—
	15 m (49.2 ft)	MAQDC-850	—
	16 m (52.8 ft)	MQDC2S-850	MQDC2S-850RA

## 8-Pin Washdown Black PVC Cable, 8 x 24 Awg

	Length	Straight
Single Ended	9 m (29.5 ft)	MQDC-WDSS-0830

# M8 Cordsets

## M8 3-Pin Black PVC Cable, 3 x 24 Awg

	Length	Straight
Threaded Female Single Ended	2 m (6.5 ft)	PKG3M-2
	5 m (16.4 ft)	PKG3M-5
	Length	Straight/Straight (female/male)
Threaded Double-Ended	4 m (13.1 ft)	PKG3M-4-PSG3M

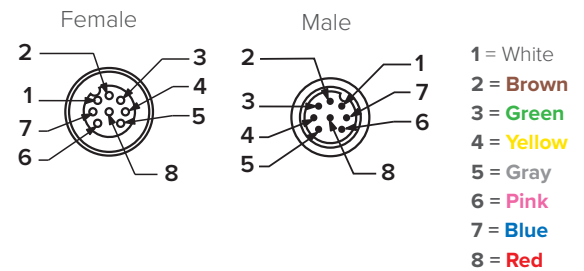
## M8 4-Pin Black PVC Cable, 4 x 26 Awg

	Length	Straight
Female Single Ended - Snap	2 m (6.5 ft)	PKG4-2
	6 m (19.7 ft)	PKG4-6

## PVC and Washdown Cordsets



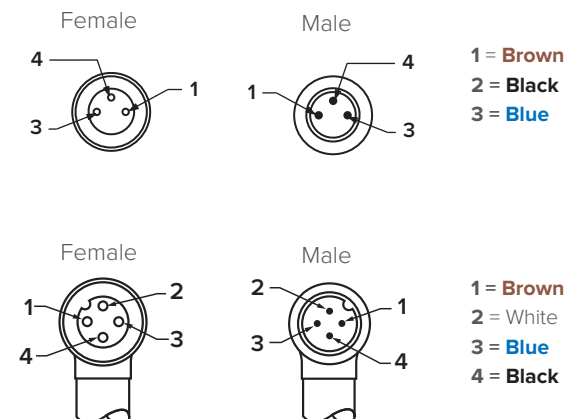
## Pinout



## Cordsets



## Pinouts



# M12 Splitters

## M12 4-Pin Black PVC Cable, 4 x 22 Awg

## Splitters

Cable Lengths		Wiring Diagram	Models
Trunk	Branches		
No Trunk/ Integral QD (Male)	No Branch/ Integral QD (Female)	A	CSB-M1240M1240
	0.3 m (Female)	A	CSRB-M1240M1241
	0.9 m (Female)	A	CSRB-M1240M1243
	2 x 0.3 m (Female)	B	S15YA24-M124-M124-0.2M
		C	S15YA4-M124-M124-0.2M
0.3 m (Male)	2 x 0.3 m (Female)	A	S15YB-M124-M124-0.2M
		A	CSB-M1241M1241
0.3 m (Female)	2 x 0.3 m (Male)	D	CSA-M1241M1241
		D	CSA-M12F41M12M41



## Wiring Diagrams

Diagram A:  
Parallel 4-Pin Wiring

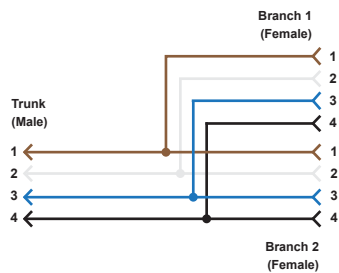


Diagram B:  
Non-parallel 4-Pin Wiring

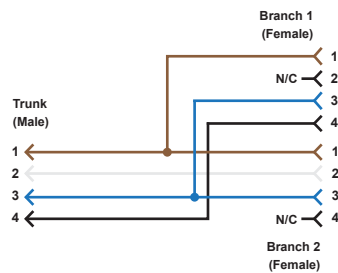


Diagram C:  
Non-parallel 4-Pin Wiring

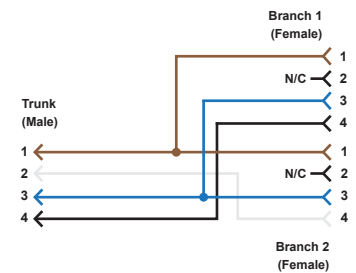
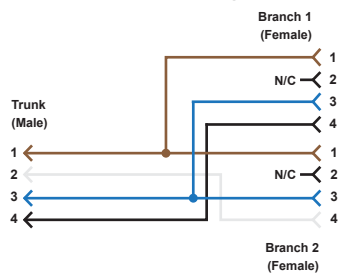


Diagram D:  
Non-parallel 4-Pin Wiring



# M12 Splitters

## M12 5-Pin Black PVC Cable, 5 x 22 Awg

Cable Lengths		Wiring Diagram	Models
Trunk	Branches		
No Trunk/ Integral QD (Female)	2 x No Branch/ Integral QD (Female and Male)	E	CSB-M1250M1250-T
No Trunk/ Integral QD (Male)	Branch 1 0.14 m Branch 2 0.22 m (Female)	F	CSRB-M1250M125. 47M125.73
0.3 m (Female)	2 x 0.3 m (Male)	F	CSB-M1251FM1251M
0.3 m (Male)	4 x No Branch/ Integral QD (Female)	F	CSB4-M1251M1250

## Splitters



## M12 8-Pin

Trunk	Branches	Wiring Diagram	Model
No Trunk/ Integral QD (Male)	2 x No Branch/ Integral QD (Female)	G	CSB-M1280M1280

## Special Wiring Black PVC Cable, 4 x 22 Awg

Trunk	Branches	Wiring Diagram	Models
0.3 m (5-Pin Female)	2 x 0.3 m (4-Pin Male)	H	CSF-M12F51M12M41
0.3 m (8-Pin Female)	3 x 0.3 m (4-Pin Male)	I	CSF3A-M12F81M12M41
No Trunk/ Integral QD (8-Pin Female)	2 x No Branch/ Integral QD (8-Pin Female and 4-Pin Male)	J	CSB-M1240M1280

## Wiring Diagrams

Diagram E:  
Parallel 5-Pin Wiring

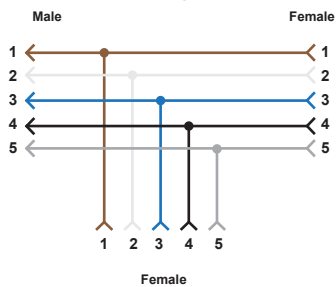


Diagram F:  
Parallel 5-Pin Wiring

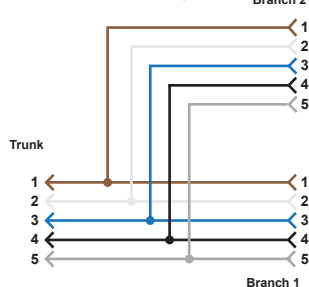


Diagram G:  
Parallel 8-Pin Wiring

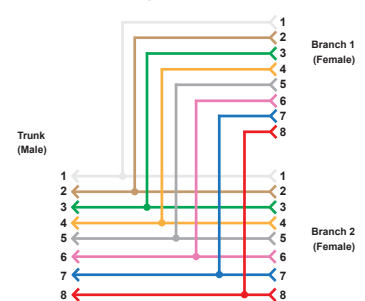


Diagram H:  
Parallel 5-Pin Wiring

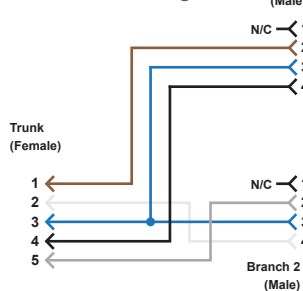


Diagram I:  
Parallel 5-Pin Wiring

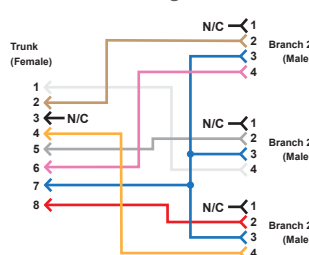
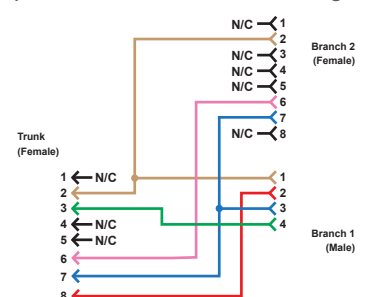


Diagram J:  
Non-parallel 8-Pin to 8- and 4-Pin Wiring



# Miscellaneous

## M12 4-Pin 4 x 22 Awg

	Straight	Right-Angle
Male Field Wireable	FIC-M12M4	FIC-M12M4A

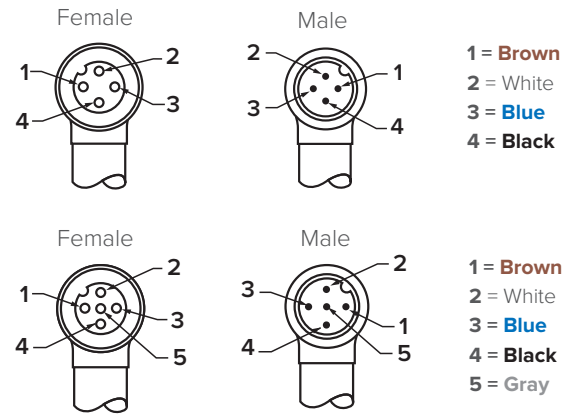
## M12 4- to 5-Pin Black PVC Cable, 4 x 22 Awg

	Length	Straight/Straight (female/male)
Double-Ended	0.3 m (1 ft)	MQDC-5401SS

## Field Wireable and Cordset



## Pinouts



# Converters and Hubs

## 4-Pin S15C

Converter	Models
4–20 mA input to IO-Link	S15C-I-KQ
0–10 V DC input to IO-Link	S15C-U-KQ
Discrete input/output to IO-Link	S15C-B21-KQ
4–20 mA input to Modbus	S15C-I-MQ
0–10 V DC input to Modbus	S15C-I-MQ
Discrete input/output to Modbus	S15C-B22-MQ

## 4-Pin R45C

Converter/hub	Models
Dual analog current in and out	R45C-KII-IIQ
Dual analog voltage in and out	R45C-KUU-UUQ
RTU hub, 2 inputs (4–20 mA), 2 outputs (4–20 mA)	R45C-MII-IIQ
RTU hub, 2 inputs (0–10 V DC), 2 outputs (0–10 V DC)	R45C-MUU-UUQ

## 4-Pin R90C

Hub	Models
4-port, bimodal	R90C-4B21-KQ

## 4-Pin R95C

Hub	Models
8-port, bimodal, 2 inputs, 2 outputs	R95C-8B22-KQ
8-port, bimodal, 2 inputs, 1 output	R95C-8B21-KQ
RTU hub, 8 port, 16 in or 8 in 8 out	R95C-8B21-MQ

## Hubs



## R95C and S15Y Compatibility



# More Sensors, More Solutions.

Banner Engineering designs and manufactures industrial automation products including sensors, smart IIoT and industrial wireless technologies, LED lights and indicators, measurement devices, machine safety equipment, as well as barcode scanners and machine vision. These solutions help make many of the things we use every day, from food and medicine to cars and electronics. 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 world-wide 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.

