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# 8-port 3-pin M8 Female to 12-pin M12 Male Junction Block

## Features

*8-port Junction Block*



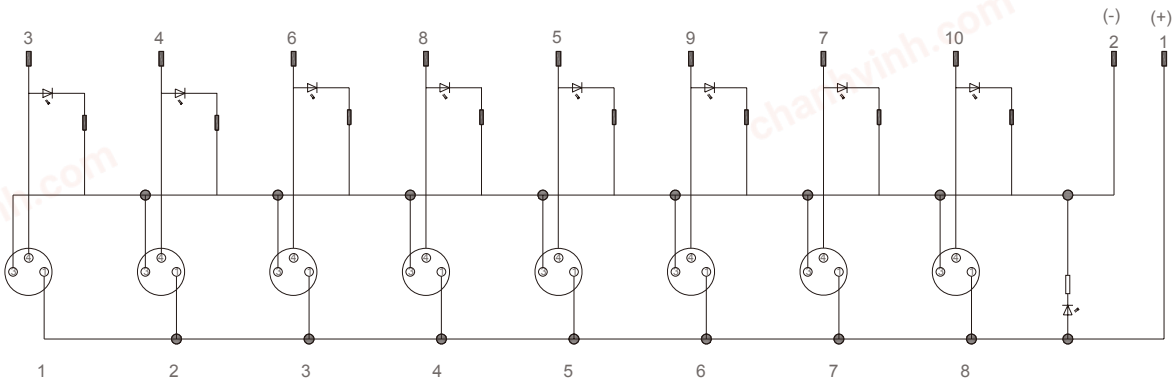
Banner's Junction Blocks are designed to reduce wiring and to simplify connecting multiple products.

- 3-pin M8 female termination with 12-pin M12 male connector
- 8 ports
- NPN, PNP, and discrete models available
- 8 Signals, Pin 4 each Port

## Models

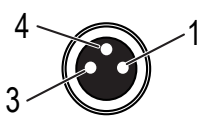
| Model | Output | Indication |
|---|---|---|
| **JB-8M8-M12-P4** | PNP | LED |
| **JB-8M8-M12-N4** | NPN | |
| **JB-8M8-M12-4** | Discrete | Non-LED |

## Wiring



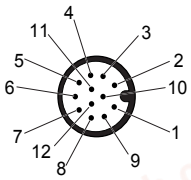

LED Indicating PNP
Other circuit diagram (NPN) can be customized

**3-pin M8 Female Pinout**




1 = Brown
3 = Blue
4 = Black

**12-pin M12 Male Pinout**




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



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# Specifications

**Voltage**
LED models: 30 V DC
Non-LED models: 60 V DC

**Rated Current**
1A per port / 3A total

**Indicators (LED models only)**
Power LED: Red (0 or 8, depending on model)
Signal LED: Amber (0 or 1, depending on model)

**Construction**
Body: PBT
Coupling nut: Nickel-plated brass

**Vibration**
**Method:** EN 60068-2-6:2008
**Frequency Range:** 10-55 Hz (Sine)
**Amplitude:** 0.5 mm
**Sweep Cycle Duration:** 5 minutes (2.5 min per sweep)
**Dwell Duration at resonant frequency:** 30 Minutes

**Mechanical Shock**
**Method:** EN 60068-2-27:2009
**Pulse Shape:** Half-Sine
**Peak Acceleration:** 30 G
**Duration of the pulse:** 11 mS

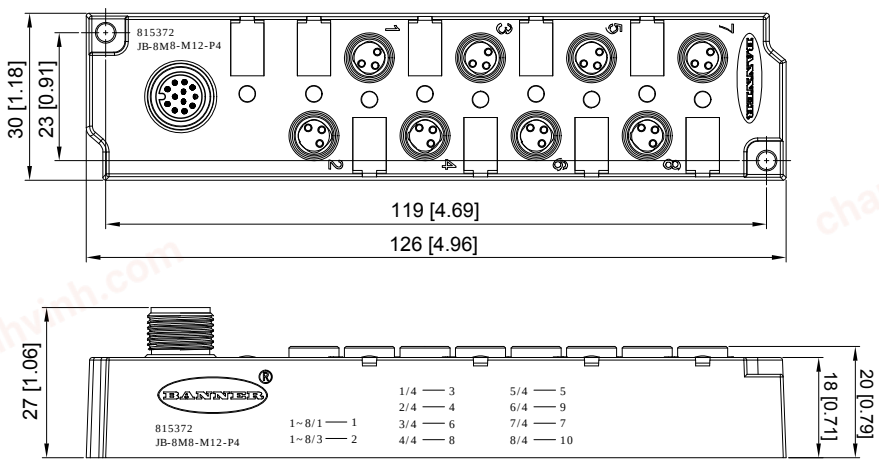
**Environmental Ratings**
IP67

**Operating Conditions**
–25 °C to +80 °C (–13 °F to +176 °F)

**Certifications**

# Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.





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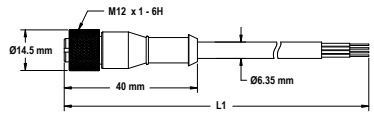
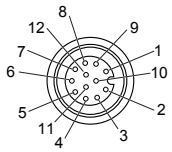
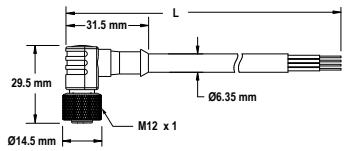
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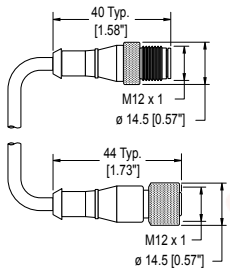
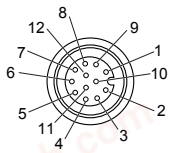
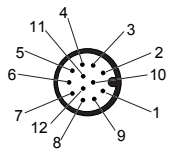


# Accessories

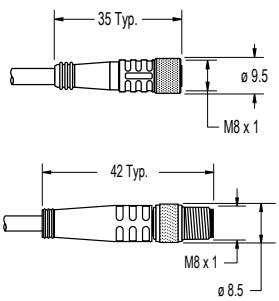
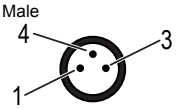
## Cordsets

### Home Run Cordsets

| 12-pin A-Code Single-Ended M12 Female Cordsets | | | | |
|---|---|---|---|---|
| **Model** | **Length** | **Dimensions (mm)** | **Pinout (Female)** | |
| **BC-M12F12-24-2** | 2 m (6.56 ft) |  |  | 1 = White<br>2 = Brown<br>3 = Green<br>4 = Yellow<br>5 = Gray<br>6 = Pink<br>7 = Blue<br>8 = Red<br>9 = Orange<br>10 = Tan<br>11 = Black<br>12 = Violet<br>cULus LISTED |
| **BC-M12F12-24-5** | 5 m (16.4 ft) | | | |
| **BC-M12F12-24-10** | 10 m (30.81 ft) | | | |
| **BC-M12F12A-24-2** | 2 m (6.56 ft) |  | | |
| **BC-M12F12A-24-5** | 5 m (16.4 ft) | | | |
| **BC-M12F12A-24-10** | 10 m (30.81 ft) | | | |

| 12-pin A-Code Double-Ended M12 Female to M12 Male Cordsets | | | | |
|---|---|---|---|---|
| **Model** | **Length** | **Dimensions (mm)** | **Pinout** | |
| **BC-M12F12-M12M12-24-2** | 2 m (6.56 ft) |  | Female<br><br>Male<br> | 1 = White<br>2 = Brown<br>3 = Green<br>4 = Yellow<br>5 = Gray<br>6 = Pink<br>7 = Blue<br>8 = Red<br>9 = Orange<br>10 = Tan<br>11 = Black<br>12 = Violet<br>cULus LISTED |
| **BC-M12F12-M12M12-24-5** | 5 m (16.4 ft) | | | |
| **BC-M12F12-M12M12-24-10** | 10 m (30.81 ft) | | | |

### Signal Port Cordsets

| 3-pin Double-Ended M8 Female to M8 Male Cordsets (datasheet p/n 236620) | | | | |
|---|---|---|---|---|
| **Model** | **Length** | **Dimensions (mm)** | **Pinout** | |
| **BC-M8F3-M8M3-24-0.5** | 0.5 m (1.64 ft) |  | Female<br><br>Male<br> | 1 = Brown<br>3 = Blue<br>4 = Black<br>cULus LISTED |
| **BC-M8F3-M8M3-24-1** | 1 m (3.28 ft) | | | |
| **BC-M8F3-M8M3-24-2** | 2 m (6.56 ft) | | | |
| **BC-M8F3-M8M3-24-5** | 5 m (16.4 ft) | | | |
| **BC-M8F3-M8M3-24-8** | 8 m (26.25 ft) | | | |
| **BC-M8F3-M8M3-24-10** | 10 m (30.81 ft) | | | |

# Product Support and Maintenance

## Repairs

Contact Banner Engineering for troubleshooting of this device. **Do not attempt any repairs to this Banner device; it contains no field-replaceable parts or components.** If the device, device part, or device component is determined to be defective by a Banner Applications Engineer, they will advise you of Banner's RMA (Return Merchandise Authorization) procedure.


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**IMPORTANT:** If instructed to return the device, pack it with care. Damage that occurs in return shipping is not covered by warranty.

## Contact Us

Banner Engineering Corp. | 9714 Tenth Avenue North | Plymouth, MN 55441, USA | Phone: + 1 888 373 6767

For worldwide locations and local representatives, visit www.bannerengineering.com.

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