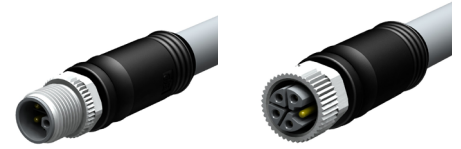


# Brad M12 Power L-Code Connector System

Providing the power required for Industry 4.0 electric propulsion while being both compact and reliable, the Brad M12 Power L-Code Connector System meets PROFIBUS and PROFINET International (PI) standards for PROFINET systems.



Brad M12 Power L-Code Cordsets  
Left: Male | Right: Female

## FEATURES AND ADVANTAGES

### 63V AC/DC; up to 16.0A current per pin

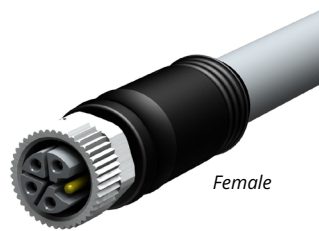
- Delivers 4 times the power of standard M12 connectors
- Allows installations over a longer distance and reduced voltage drop due to 2.50mm<sup>2</sup> thick wires

### IP67-sealed interface

- Provides a sealed connection ideal for use in harsh and wet industrial environments
- Includes a dust-proof connector that can be temporarily submerged in up to 1 meter of water



Male



Female

### PI Selected

- Enables immediate implementation into PROFINET applications
- Saves time and costs

### Pins enclosed in contact carrier

Enhances operator safety by eliminating the chance of electrical shock due to exposed pins

### L-Code mating interface

Prevents mis-mating with other M12 connectors being used for input, output, signal or industrial network connections

### Products developed according to IEC Standard 61076-2-111

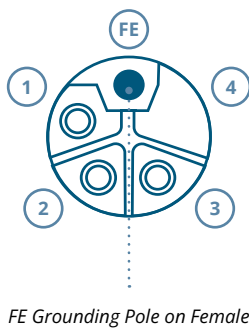
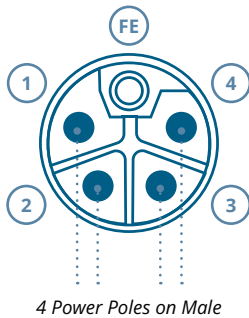
Establishes an open-industry connector standard to increase adoption among a wide array of platforms and manufacturers

# Brad M12 Power L-Code Connector System

## FEATURES AND ADVANTAGES

### L-Code Overview

Brad M12 Power L-Code Face View



### Born of Industry Collaboration

PROFINET Cabling and Interconnection Technology Guideline Unification of the 24V Power Supply



7/8"  
16.0A  
Powerful



M12 AC 4.0A  
Compact



Brad M12 Power L-Code  
Compact and Powerful

### Advantage:

Brad M12 Power L-Code combines the power capabilities of 7/8" connectors with the compact size of the M12 form factor

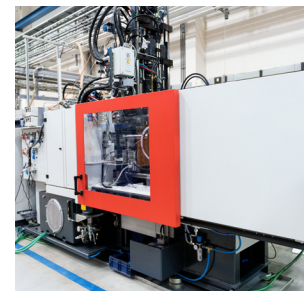
## APPLICATIONS

### Industrial Automation

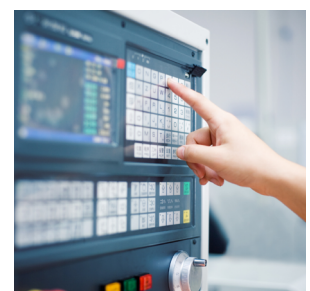
- Power supplies of decentralized I/O
- Field-bus-controlled I/O boxes
- Small server/DC motors and drives
- Machine tools, presses, molding and stamping
- Automotive plants



Automotive Production/Robotics/  
Machine and Line Builders



Machine Tools/Machining Centers/  
Injection and Casting Machines



CNC Control Panel

# Brad M12 Power L-Code Connector System

## SPECIFICATIONS

### Reference Information

Packaging: Bag  
Mates With: M12 Power L-Code cordsets, receptacles and field attachables  
Coding/Number of Pins:

CSE L-Code 5 by 2.50mm<sup>2</sup> – L-Code (4+FE)  
CSE L-Code 4 by 2.50mm<sup>2</sup> – L-Code (4 without FE)  
CSE L-Code 5 by 1.50mm<sup>2</sup> – L-Code (4+FE)  
CSE L-Code 4 by 1.50mm<sup>2</sup> – L-Code (4 without FE)  
Receptacles – L-Code (4+FE)

### Electrical

Voltage (max.): 63V (pollution degree 3)  
Current (max.): 12.0A per pin (1.50mm<sup>2</sup> wires)  
16.0A per pin (2.50mm<sup>2</sup> wires)

Contact Resistance: < 5 milliohms  
Insulation Resistance: >108 Ohms

### Physical

Housing/Insert: PA  
Coupling Nut: Brass  
Overmold: TPU black  
Contact: Brass  
Contact Plating: Gold-plated  
Operating Temperature: -25 to +85°C  
Designed In: Millimeters  
RoHS: Yes  
Glow Wire: Yes  
UL: Pending  
IEC Standard: 61076-2-111:2017  
IP Rating: IP67

[www.molex.com/link/m12-l-code.html](http://www.molex.com/link/m12-l-code.html)