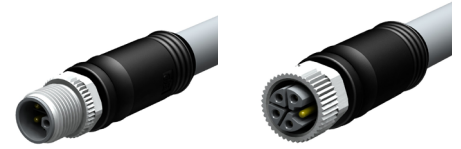


Brad M12 Power L-Code Connector System

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

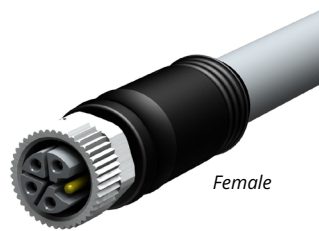
- Delivers 4 times the power of standard M12 connectors
- Allows installations over a longer distance and reduced voltage drop due to 2.50mm² thick wires

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

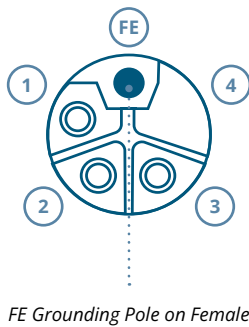
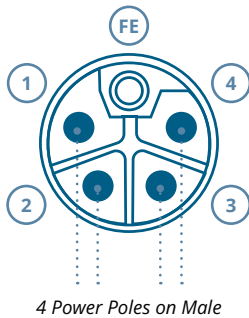
Establishes an open-industry connector standard to increase adoption among a wide array of platforms and manufacturers

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

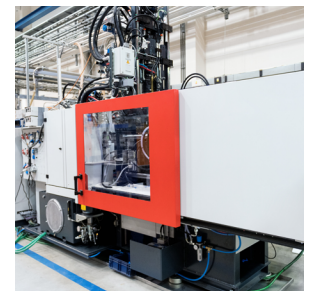
APPLICATIONS

Industrial Automation

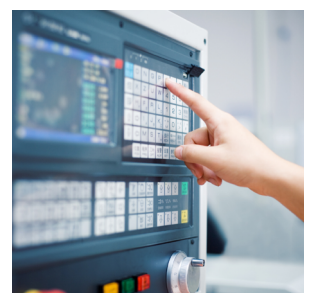
- Power supplies of decentralized I/O
- Field-bus-controlled I/O boxes
- Small server/DC motors and drives
- Machine tools, presses, molding and stamping
- Automotive plants



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 2.50mm² – L-Code (4+FE)

CSE L-Code 4 by 2.50mm² – L-Code (4 without FE)

CSE L-Code 5 by 1.50mm² – L-Code (4+FE)

CSE L-Code 4 by 1.50mm² – L-Code (4 without FE)

Receptacles – L-Code (4+FE)

Electrical

Voltage (max.): 63V (pollution degree 3)

Current (max.): 12.0A per pin (1.50mm² wires)

16.0A per pin (2.50mm² 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.html