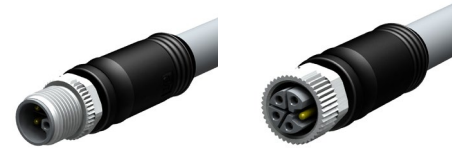


Brad M12 Power L-Code Connector System

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

Delivers 16.0A output current against 10.0A from mini-change

The enhanced design and improved insulation of the Brad M12 L-Code Connector System helps deliver a high output current.

Helps customers use any matable cable

The Brad M12 L-code Field Attachable allows a customer the flexibility to use any matable cable, thereby allowing a customer to select the best cable as per their requirement, in addition to a convenient installation process.

Provides a sealed connection to withstand harsh and wet industrial environments

The Brad M12 L-Code Field Attachable helps withstand harsh and wet industrial environments because of the sealed connection that is provided by the IP67-sealed interface.

Category	Circular Industrial Connectors
Orientation	Straight
Voltage (max.)	63V
Current (max.)	12.0 A - 16.0A
Contact resistance	< 5 milliohms
Insulation resistance	> 10 ⁸ Ohms
Operating Temperature	-25 to +85°C

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

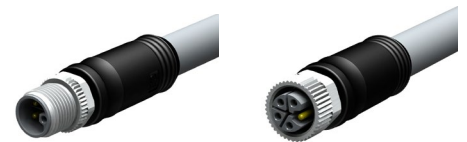
The pins in the Field Attachable are enclosed in the contact carrier that eliminates the chance of any electrical shock.

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

The L-Code mating interface of the Brad M12 Connector System prevents mis-mating.

Supports use in applications where space is limited

The compact size of the Brad M12 L-Code Connector System makes it suitable to be used in certain applications where there is a space constraint.



Male

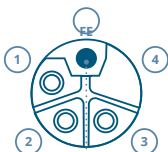
Female

L-Code Overview

Brad M12 Power L-Code Face View



4 Power Poles on Male



FE Grounding Pole on Female



7/8"
16.0A



M12 AC 4.0A



Brad M12 Power L-Code

Brad M12 Power L-Code Connector System >

APPLICATIONS

Industrial Automation

Power supplies of decentralized I/O
Field-bus-controlled I/O boxes
Small server/DC motors and drives
Machine and line builders
Automotive plants
DC applications in low-voltage areas



*Automotive Production/Robotics/
Machine and Line Builders*



*Machine Tools/Machining Centers/
Injection and Casting Machines*



CNC Control Panel

SPECIFICATIONS

Reference Information

Packaging: Bag
Mates With: M12 Power L-Code cordsets, adapters, receptacles, T-splitter, and field attachable
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)
Adapter L-code to MC 5 by 1.50mm² – L-Code (4+FE)
Receptacles – L-Code 5 by 2.50mm² – L-Code (4+FE)
Receptacles – L-Code 5 by 1.50mm² – L-Code (4+FE)
Receptacles – L-Code 4 by 2.50mm² – L-Code (4 without FE)
Receptacles – L-Code 4 by 2.50mm² – L-Code (4 without FE)
T-Splitter - L-Code (4+FE)
Designed In: Millimeters
RoHS: Yes
Glow Wire compliant: Yes
IEC Standard: 61076-2-111:2017
IP-Rating: IP67

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 Temperatures: -25 to +85°C
Designed In: Millimeters
RoHS: Yes
Glow Wire: Yes
UL: Approved*
IEC Standard: 61076-2-111:2017
IP Rating: IP67

* T-splitter: IEC 16A; UL 14A
Field Attachables: Not Available

www.molex.com