# molex

## Extract real-time data from the manufacturing floor to front-office computing devices seamlessly with **Brad® Industrial Ethernet Solutions**

# **Features and Benefits**

	Designed to Ethernet specifications	Ensures uninterrupted and reliable production system operations with devices communicating over the same protocol
	Cable options include unshielded and shielded, twisted pairs for Cat 5e data performance	Achieves optimal signal performance without system noise interference
	IP67 sealed interface	Provides reliable connectivity in harsh environments
	Ultra-Lock <sup>®</sup> push-to-lock technology, threaded and bayonet- style coupling styles available	Delivers simple and fast operator- independent connections in a variety of coupling options. Reduces labor and wiring costs
	Positive-locking with an audible click available with Ultra-Lock and bayonet-style versions	Ensures a reliable and secure connection
	Receptacles designed for conventional threaded and push- pull quick connect	Ensure reliable mating to M12 D-Coded threaded and Ultra-Lock push-pull cordsets
	Robust, compact M12 Cat 6a X-Code connector design	Transmission performance meets TIA-568 and ISO/IEC 11801 Cat 6a specification up to 500Mhz for

10 Gbps Ethernet

# **Brad®** Industrial **Ethernet Solutions**

130047, 130048, 130054, 120108,

120109 M12 D-Coded Ethernet Receptacles and Cordsets:Micro-Change<sup>®</sup> Threaded and Ultra-Lock® Push-Pull

112095, 112111, **112105** Brad<sup>®</sup> Ethernet Modules and Switches

# 130050, 130053,

130055, 130057, 130058 Brad® RJ-Lnxx® **RJ-45** Threaded **Receptacles and** Cordsets

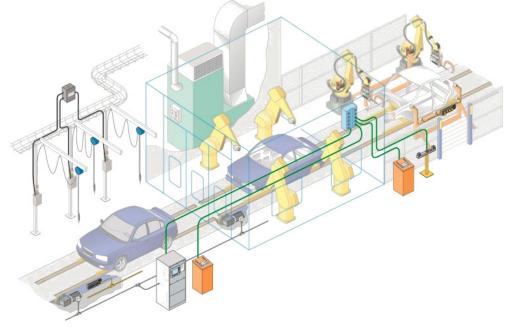
#### 84700,

- 84702 RJ-45 Bayonet-Style **Receptacles** and Cordsets
- 120341 Micro-Change<sup>®</sup> M12 Cat 6a X-Coded **Receptacles and** Cordsets

# **Applications**

Industrial Automation

- Automotive manufacturing Robotics
- Food and beverage
- Conveying, packaging, sortation systems
  Industrial device OEMs
- Vision systems
- Commercial Vehicle
- Telematics
- GPS positioning systems
   Data acquisition systems
   Railways (train data networks,
- video protection)
- Aerospace and Defense Vehicle open-system
  - architectures
  - High-speed video communication



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## **Specifications**

## <u>RJ-45 Bayonet Style Receptacles</u> and Cordsets (Series 84700, 84702) Reference Information

Performance: Cat 5e Environmental: IP67 RoHS Compliant: Yes

#### **Electrical**

Voltage (max.): 150V Current (max.): 1.5A

#### Physical

Housing: PBT Contact: Nickel Plated Phosphor Bronze Coupling Nut: Polyamide 6/6 Operating Temperature: -40 to +85°C

#### Brad® RJ-Lnxx® RJ-45 Threaded Receptacles and Cordsets Reference Information Performance: Cat 5e Environmental: IP67 RoHS Compliant: Yes

#### **Electrical**

Voltage (max.): 125V Current (max.): 1.5A

#### Physical

Housing: ABS Contact: Gold over Nickel Phosphor Bronze Coupling Nut: ABS Operating Temperature: -20 to +80°C

# **Ordering Information**

Series No.	Description	Product Attribute/ Component	Product Image
130047	Micro-Change <sup>®</sup> Threaded M12 D-Coded Ethernet Receptacles	Field-Attachable Connector	
130048	Micro-Change <sup>®</sup> Threaded M12 D-Coded Ethernet Cordsets	Industrial Cordsets	
130054	Ultra-Lock <sup>®</sup> Push-Pull M12 D-Coded Ethernet Receptacles	Ethernet Receptacles	
120108	Ultra-Lock <sup>®</sup> Push-Pull M12 D-Coded Ethernet Cordsets	Cordsets	
120109	Ultra-Lock <sup>®</sup> Push-Pull M12 D-Coded Ethernet Receptacles	Receptacles	
120341	Ultra-Lock <sup>®</sup> Push-Pull M12 D-Coded Ethernet Receptacles	Receptacles and Cordsets	0
112095	Brad <sup>®</sup> Harsh I/O IP67 Ethernet Modules	Ethernet Modules	L'ALTER ST
112111/ 112105	Brad <sup>®</sup> Direct-Link <sup>™</sup> Harsh-Duty Ethernet Switches	5- and 8-Port Ethernet Switches	
130050	Brad <sup>®</sup> RJ-Lnxx <sup>®</sup> RJ-45 Cordsets	Cordsets	
130053/ 130055	Brad® RJ-Lnxx® RJ-45 Receptacles	Receptacles	LA
130057	Brad <sup>®</sup> RJ-Lnxx <sup>®</sup> RJ-45 RJ-45 Field-Attachable Connectors	Field-Attachable Connectors	
130058	Brad <sup>®</sup> RJ-Lnxx <sup>®</sup> RJ-45 Accessories RJ-45 Field-Attachable Connectors	Accessories	
84700	RJ-45 Bayonet Style Receptacles	Receptacles	
84702	RJ-45 Bayonet Style Receptacles and Cordsets	Receptacles and Cordsets	CON

# Brad<sup>®</sup> Industrial Ethernet Solutions

M12 D-Coded Ethernet Receptacles and Cordsets: Micro-Change® Threaded and Ultra-Lock® Push-Pull (Series 130047, 130048, 130054, 120108, 120109) Reference Information

Performance: Cat 5e Environmental: IP67, IP69K UL File No.: E200650 RoHS Compliant: Yes

## Electrical

Voltage (max.): 125V Current (max.): 1.5A

### Physical

Housing: Nickel Plated Brass Contact:

Gold over Nickel Copper Alloy Coupling Nut: Nickel Plated Brass Operating Temperature: -20 to +75°C

# M12 Cat 6a X-Coded Receptacles

and Cordsets: Micro-Change® Threaded (Series 120341) Reference Information Performance: Cat 6a Environmental: IP67 UL File No.: E200650 RoHS Compliant: Yes

#### Electrical

Voltage (max.): 48V Current (max.): 0.5A

### Physical

Housing: Nickel Plated Brass Contact:

Gold over Nickel Copper Alloy Coupling Nut: Nickel Plated Brass Operating Temperature: -40 to +70°C

## www.molex.com/link/bradindustrialethernet.html