



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**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® 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® Threaded and Ultra-Lock® Push-Pull

**112095, 112111, 112105** Brad® 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® M12 Cat 6a X-Coded Receptacles and Cordsets

### Applications

#### Industrial Automation

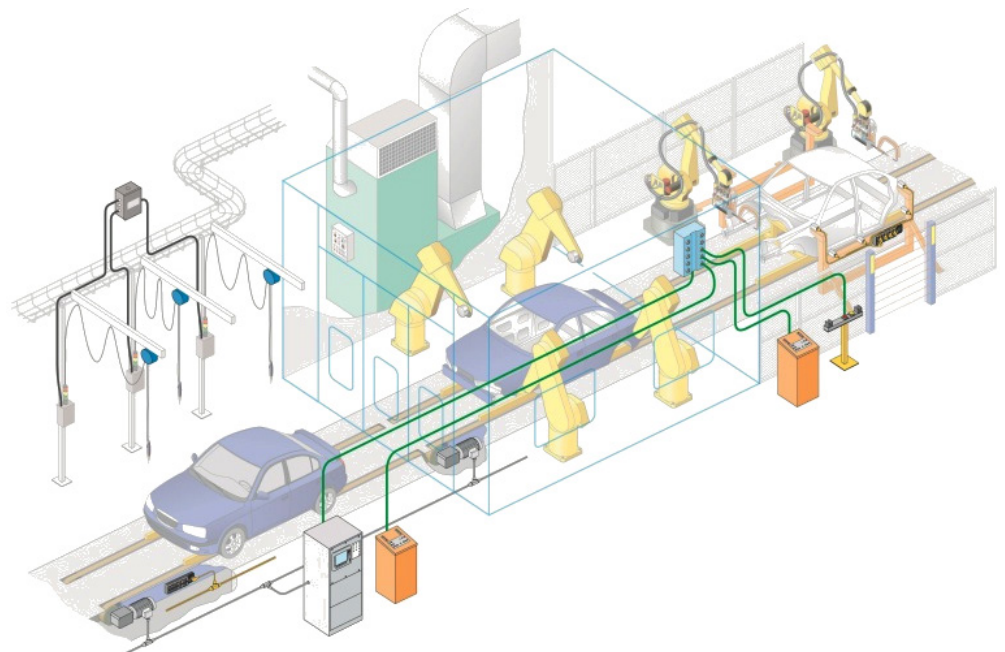
- Automotive manufacturing
- Robotics
- Food and beverage
- Conveying, packaging, sortation systems
- Industrial device OEMs
- Vision systems

#### 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





## Specifications

### RJ-45 Bayonet Style Receptacles 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

## Brad® 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

## Ordering Information

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