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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

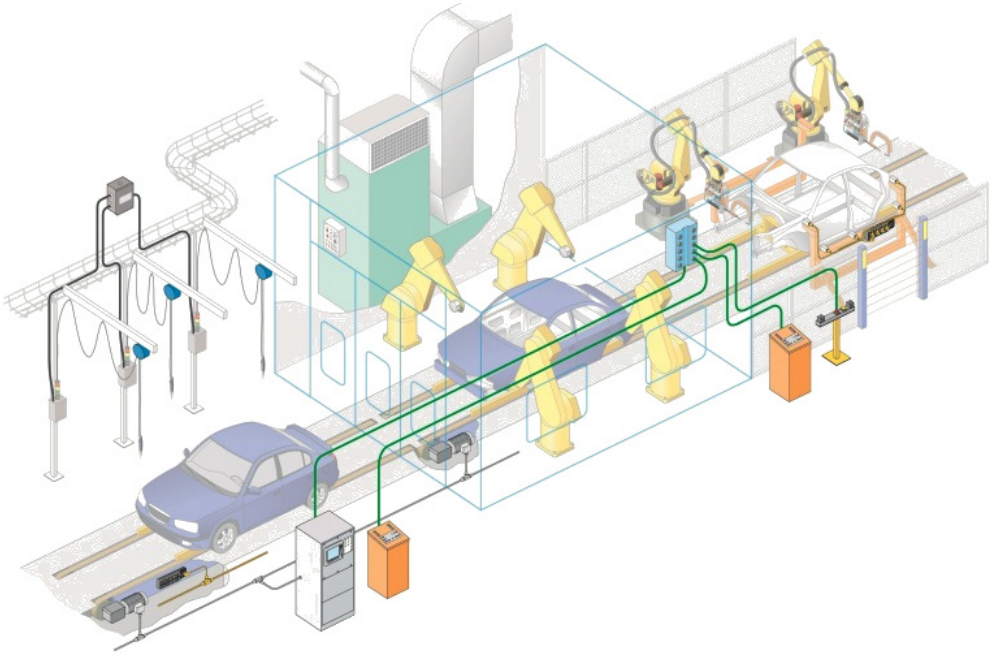
120341 Micro-Change® M12 Cat 6a X-Coded Receptacles and Cordsets

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



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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

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	

www.molex.com/link/bradindustrialethernet.html

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