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

Features and Benefits

<table>
<thead>
<tr>
<th>Feature / Benefit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Designed to Ethernet specifications</td>
<td>Ensures uninterrupted and reliable production system operations with devices communicating over the same protocol</td>
</tr>
<tr>
<td>Cable options include unshielded and shielded, twisted pairs for Cat 5e data</td>
<td>Achieves optimal signal performance without system noise interference</td>
</tr>
<tr>
<td>IP67 sealed interface</td>
<td>Provides reliable connectivity in harsh environments</td>
</tr>
<tr>
<td>Ultra-Lock® push-to-lock technology, threaded and bayonet-style coupling styles</td>
<td>Delivers simple and fast operator-independent connections in a variety of coupling options. Reduces labor and wiring costs</td>
</tr>
<tr>
<td>Positive-locking with an audible click available with Ultra-Lock and bayonet-style</td>
<td>Ensures a reliable and secure connection</td>
</tr>
<tr>
<td>Receptacles designed for conventional threaded and push-pull quick connect</td>
<td>Ensure reliable mating to M12 D-Coded threaded and Ultra-Lock push-pull cordsets</td>
</tr>
<tr>
<td>Robust, compact M12 Cat 6a X-Code connector design</td>
<td>Transmission performance meets TIA-568 and ISO/IEC 11801 Cat 6a specification up to 500Mhz for 10 Gbps Ethernet</td>
</tr>
</tbody>
</table>

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® RI-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**

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