GigaSPEED X10D® M-Series Modular Jack, RJ45, Cat6A Unshielded, Blue

- Electrical performance guaranteed to meet or exceed the channel specifications to ISO/IEC 11801 Class EA and ANSI/TIA-568-C.2 Category 6A
- Patented crossing of straddling pair contacts enables efficient alien crosstalk reduction in the channel
- Snaps into standard M-series faceplates, surface-mount boxes, consolidation point boxes and modular panels
- Mountable either at 90 degrees (straight) or 45 degrees (angled) in M-series faceplate
- Universal design and label supports both T568 A & B wiring
- IDC connector terminations on rear of base allow quick and easy installation of 22 to 24 AWG cable
- Support network line speeds up to at least 10 gigabits per second
- Low-profile rear protective strain relief cap, protects against contamination and secures the connection

Product Classification

<table>
<thead>
<tr>
<th>Regional Availability</th>
<th>Asia</th>
<th>Australia/New Zealand</th>
<th>EMEA</th>
<th>Latin America</th>
<th>North America</th>
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<tbody>
<tr>
<td>Portfolio</td>
<td>SYSTIMAX®</td>
<td>Modular jack</td>
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<td>Product Brand</td>
<td>GigaSPEED X10D®</td>
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<tr>
<td>Product Series</td>
<td>MGS600</td>
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</table>

General Specifications

- **ANSI/TIA Category**: 6A
- **Cable Type**: Unshielded
- **Color**: Blue
- **Conductor Type**: Solid | Stranded
- **Integrated Dust Cover Type**: None
- **Termination Type**: IDC
- **Wiring**: T568A | T568B

Dimensions

- **Height**: 19.4 mm | 0.764 in
- **Width**: 21.08 mm | 0.83 in
### Depth
- 30.2 mm | 1.189 in

### Compatible Conductor Gauge
- **Solid**: 22 AWG | 24 AWG
- **Stranded**: 22 AWG | 24 AWG

### Electrical Specifications
- **Contact Resistance Variation, maximum**: 20 mOhm
- **Contact Resistance, maximum**: 100 mOhm
- **Current Rating at Temperature**: 1.5 A @ 20 °C | 1.5 A @ 68 °F
- **Dielectric Withstand Voltage, RMS, conductive surface**: 1,500 Vac @ 60 Hz
- **Dielectric Withstand Voltage, RMS, contact-to-contact**: 1,000 Vac @ 60 Hz
- **Insulation Resistance, minimum**: 500 M Ohm

### Remote Powering
- Fully supports the safe delivery of power over LAN cabling described by IEEE 802.3bt (Type 4) and complies with the unmating under electrical load requirements prescribed by IEC 60512-99-002

### PoE Durability
- Supports IEEE 802.3bt Type 4 (90 W) applications after 3000 plug to jack mating cycles

### Material Specifications
- **Contact Plating Material**: Precious metals
- **Material Type**: Copper alloy | High-impact, flame retardant, thermoplastic
- **Termination Contact Plating**: Nickel

### Mechanical Specifications
- **Plug Retention Force, minimum**: 133 N | 29.9 lbf
- **Plug to Jack Mating Cycles**: Complies to IEC 60603-7 series

### Environmental Specifications
- **Operating Temperature**: -10 °C to +60 °C (+14 °F to +140 °F)
- **Storage Temperature**: -40 °C to +70 °C (-40 °F to +158 °F)
- **Relative Humidity**: Up to 95%, non-condensing
- **Flammability Rating**: UL 94 V-0
- **Safety Standard**: UL | cUL

### Packaging and Weights
<table>
<thead>
<tr>
<th>Packaging Material</th>
<th>Standard</th>
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<tbody>
<tr>
<td>Packaging quantity</td>
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</table>

**Regulatory Compliance/Certifications**

<table>
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<tr>
<th>Agency</th>
<th>Classification</th>
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<tbody>
<tr>
<td>CHINA-ROHS</td>
<td>Below maximum concentration value</td>
</tr>
<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
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<tr>
<td>REACH-SVHC</td>
<td>Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a></td>
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