



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

- 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

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| Regional Availability | Asia   Australia/New Zealand   EMEA   Latin America   North America |
| Portfolio             | SYSTIMAX®                                                           |
| Product Type          | Modular jack                                                        |
| Product Brand         | GigaSPEED X10D®                                                     |
| Product Series        | MGS600                                                              |

General Specifications

|                   |                  |
|-------------------|------------------|
| ANSI/TIA Category | 6A               |
| Cable Type        | Unshielded       |
| Color             | Brown            |
| Conductor Type    | Solid   Stranded |

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Integrated Dust Cover Type      | None                                      |
| Mounting                        | M Series faceplates and panels            |
| Termination Punchdowns, minimum | 20 times                                  |
| Termination Tool                | 110 Punchdown tool                        |
| Termination Type                | IDC                                       |
| Transmission Standards          | ANSI/TIA-568.2-D   ISO/IEC 11801 Class EA |
| Wiring                          | T568A   T568B                             |

## Dimensions

|                                                  |                                                         |
|--------------------------------------------------|---------------------------------------------------------|
| Height                                           | 19.2 mm   0.756 in                                      |
| Width                                            | 21.1 mm   0.831 in                                      |
| Depth                                            | 30.2 mm   1.189 in                                      |
| Compatible Cable Diameter, maximum               | 7.24 mm   0.285 in                                      |
| Compatible Insulated Conductor Diameter, maximum | 1.45 mm   0.057 in                                      |
| Contact Plating Thickness                        | 1.27 µm                                                 |
| Compatible Conductor Gauge, solid                | 22–24 AWG   21 AWG (for CommScope GigaREACH cable only) |
| Compatible Conductor Gauge, stranded             | 22–24 AWG                                               |

## Electrical Specifications

|                                                       |                                                                                                                                                                                                |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact Resistance, maximum                           | 20 mOhm                                                                                                                                                                                        |
| Current Rating at Temperature                         | 1.5 A @ 20 °C   1.5 A @ 68 °F                                                                                                                                                                  |
| Dielectric Withstand Voltage, RMS, contact-to-contact | 1,000 Vac @ 60 Hz                                                                                                                                                                              |
| Insulation Resistance, minimum                        | 500 MOhm                                                                                                                                                                                       |
| 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 greater than 3000 plug to jack mating cycles                                                                                                  |

|                       |         |
|-----------------------|---------|
| Safety Voltage Rating | 150 Vac |
|-----------------------|---------|

Material Specifications

|                             |                       |
|-----------------------------|-----------------------|
| Contact Base Material       | Copper-Nickel alloy   |
| Contact Plating Material    | Gold                  |
| IDC Termination Material    | Copper-Aluminum alloy |
| Material Type               | PC+ABS                |
| Termination Contact Plating | Tin                   |

Mechanical Specifications

|                            |                                |
|----------------------------|--------------------------------|
| 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       | cULus                                |

Packaging and Weights

|                    |     |
|--------------------|-----|
| Packaging quantity | 1   |
| Packaging Type     | Bag |

Regulatory Compliance/Certifications

| Agency        | Classification                                                                 |
|---------------|--------------------------------------------------------------------------------|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |