



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

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| 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             | Blue             |
| 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 Rating150 Vac

Material Specifications

Contact Base MaterialCopper-Nickel alloy

Contact Plating MaterialGold

IDC Termination MaterialCopper-Aluminum alloy

Material TypePC+ABS

Termination Contact PlatingTin

Mechanical Specifications

Plug to Jack Mating CyclesComplies 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 HumidityUp to 95%, non-condensing

Flammability RatingUL 94 V-0

Safety StandardcULus

Packaging and Weights

Packaging quantity1

Packaging TypeBag

Regulatory Compliance/Certifications

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

|         |                    |
|---------|--------------------|
| ROHS    | Compliant/Exempted |
| ROHS    | Compliant          |
| UK-ROHS | Compliant/Exempted |
| UK-ROHS | Compliant          |

