



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

- 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

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

## General Specifications

|                          |                  |
|--------------------------|------------------|
| <b>ANSI/TIA Category</b> | 6A               |
| <b>Cable Type</b>        | Unshielded       |
| <b>Color</b>             | Black            |
| <b>Conductor Type</b>    | Solid   Stranded |

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

## Dimensions

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

## Electrical Specifications

|  |  |
|--|--|
| <b>Contact Resistance, maximum</b>                           | 20 mOhm  |
| <b>Current Rating at Temperature</b>                         | 1.5 A @ 20 °C   1.5 A @ 68 °F  |
| <b>Dielectric Withstand Voltage, RMS, contact-to-contact</b> | 1,000 Vac @ 60 Hz  |
| <b>Insulation Resistance, minimum</b>                        | 500 MOhm   |
| <b>Remote Powering</b>                                       | 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 |
| <b>PoE Durability</b>  | Supports IEEE 802.3bt Type 4 (90 W) applications greater than 3000 plug to jack mating cycles  |

**Safety Voltage Rating** 150 Vac

## Material Specifications

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

## Mechanical Specifications

|                                      |                                |
|--------------------------------------|--------------------------------|
| <b>Plug Retention Force, minimum</b> | 50 N   11.24 lbf               |
| <b>Plug to Jack Mating Cycles</b>    | Complies to IEC 60603-7 series |

## Environmental Specifications

|                              |                                      |
|------------------------------|--------------------------------------|
| <b>Operating Temperature</b> | -10 °C to +60 °C (+14 °F to +140 °F) |
| <b>Storage Temperature</b>   | -40 °C to +70 °C (-40 °F to +158 °F) |
| <b>Relative Humidity</b>     | Up to 95%, non-condensing            |
| <b>Flammability Rating</b>   | UL 94 V-0                            |
| <b>Safety Standard</b>       | cULus                                |

## Packaging and Weights

|                           |     |
|---------------------------|-----|
| <b>Packaging quantity</b> | 1   |
| <b>Packaging Type</b>     | Bag |

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| 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

UK-ROHS Compliant

