



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

- 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

Orange

### 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

# 760092379 | MGS600-OR

|  |  |
|--|--|
| <b>Depth</b>   | 30.2 mm   1.189 in   |
| <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  |
| <b>Electrical Specifications</b>                             |  |
| <b>Contact Resistance Variation, maximum</b>                 | 20 mOhm  |
| <b>Contact Resistance, maximum</b>                           | 100 mOhm   |
| <b>Current Rating at Temperature</b>                         | 1.5 A @ 20 °C   1.5 A @ 68 °F  |
| <b>Dielectric Withstand Voltage, RMS, conductive surface</b> | 1,500 Vac @ 60 Hz  |
| <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  |

## Material Specifications

|                                    |  |
|------------------------------------|--|
| <b>Contact Plating Material</b>    | Precious metals  |
| <b>Material Type</b>               | Copper alloy   High-impact, flame retardant, thermoplastic |
| <b>Termination Contact Plating</b> | Nickel   |

## Mechanical Specifications

|                                      |                                |
|--------------------------------------|--------------------------------|
| <b>Plug Retention Force, minimum</b> | 133 N   29.9 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>       | UL   cUL                             |

## Packaging and Weights

|                           |          |
|---------------------------|----------|
| <b>Packaging Material</b> | Standard |
| <b>Packaging quantity</b> | 1        |

## 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  |

