

# MGS600

## Base Product



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

## 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

### Conductor Type

Solid | Stranded

### 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

### Compatible Conductor Gauge, stranded

22 AWG | 24 AWG

## Electrical Specifications

### Contact Resistance Variation, maximum

20 mOhm

### Contact Resistance, maximum

100 mOhm

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<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>PoE Durability</b>	Supports IEEE 802.3bt Type 4 (90 W) applications after 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

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system