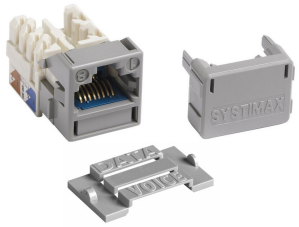
760162255 | MGS600-GY-100



GigaSPEED X10D® M-Series Modular Jack, RJ45, Cat6A Unshielded, Gray (100 ea/pkg)

- 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® | SYSTIMAX 360™
Product Series	MGS600

General Specifications

ANSI/TIA Category	6A
Cable Type	Unshielded
Color	Gray
Conductor Type	Solid | Stranded
Integrated Dust Cover Type	None
Mounting Note	Color matches with M-series Gray Faceplates and Surface Mount Boxes
Termination Type	IDC
Wiring	T568A | T568B

Dimensions

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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	21 AWG (for CommScope GigaREACH cable only) | 22–24 AWG
Compatible Conductor Gauge, stranded	22–24 AWG

Electrical Specifications

Contact Resistance Variation, maximum	20 mOhm
Contact Resistance, maximum	100 mOhm
Current Rating at Temperature	1.5 A @ 20 °C | 1.5 A @ 68 °F
Dielectric Withstand Voltage, RMS, conductive surface	1,500 Vac @ 60 Hz
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 after 3000 plug to jack mating cycles

Material Specifications

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

Mechanical Specifications

Plug Retention Force, minimum	133 N | 29.9 lbf
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

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Safety Standard	UL | cUL

Packaging and Weights

Packaging Material	Standard
Packaging quantity	100

Regulatory Compliance/Certifications

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

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