



GigaSPEED X10D® M-Series Modular Jack, RJ45, Cat6A Unshielded, Black (24 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®
Product Series	MGS600

General Specifications

ANSI/TIA Category	6A
Cable Type	Unshielded
Color	Black
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 μ m
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 Rating 150 Vac

Material Specifications

Contact Base Material Copper-Nickel alloy
Contact Plating Material Gold
IDC Termination Material Copper-Aluminum alloy
Material Type PC+ABS
Termination Contact Plating Tin

Mechanical Specifications

Plug Retention Force, minimum 50 N | 11.24 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
Safety Standard cULus

Packaging and Weights

Packaging Material Eco-friendly, single-use plastics-free
Packaging quantity 24
Packaging Type Cardboard box

Regulatory Compliance/Certifications

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