



GigaSPEED XL® M-Series Modular Jack, RJ45, Cat6
Unshielded, Orange (24 ea/pkg)

- Electrical performance guaranteed to meet or exceed the channel specifications to ISO/IEC 11801 Class E and ANSI/TIA-568.2-D Category 6
- 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
- Can support network line speeds in excess of 1 Gb/s
- Low-profile rear protective strain relief cap, protects against contamination and secures the connection
- Part of CommScope’s initiative of removing single-use plastics which also includes copper panels, jacks, cords and faceplates

Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Portfolio	SYSTIMAX®
Product Type	Modular jack
Product Brand	GigaSPEED XL®
Product Series	MGS400

General Specifications

ANSI/TIA Category	6
Cable Type	Unshielded

Color	Orange
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 E
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	5.8 mm 0.228 in
Compatible Insulated Conductor Diameter, maximum	1.45 mm 0.057 in
Contact Plating Thickness	1.27 µm
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 to Jack Mating Cycles	Complies to IEC 60603-7 series
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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
CHINA-ROHS	Above maximum concentration value

ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted

