

# MXMag RJ45 Connector Family



Tested to over 2,500 mating cycles, the MXMag RJ45 Connector Family are robust, highly-reliable magnetic jacks with optional automated reflow-solder capabilities to increase production output and Power over Ethernet (PoE) function to deliver additional cost advantages

## Features and Benefits

### LED and EMI shield tab options

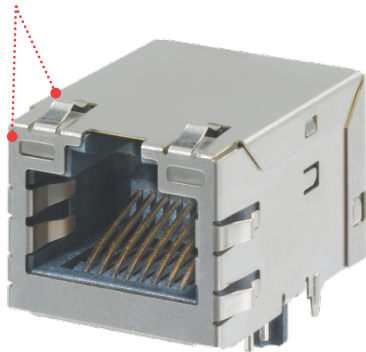
Meets demands for custom magnetics to match competitor and PHY vendor requirements. Meets the majority of right-angle through-hole magnetic jack connector requirements on the market

### RJ45 interface with robust terminal design

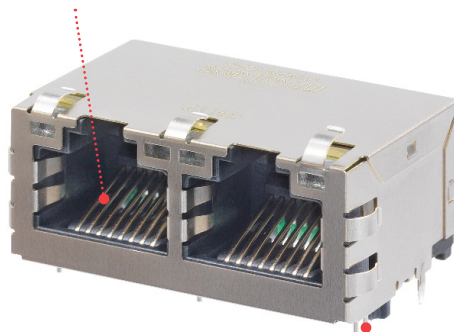
Capable of 2,500 mating cycles. PdNi plating enhances environmental performance. Designed to mate with plugs that don't strictly meet the industry-standard IEC spec. Able to withstand higher-vibration environments

### PoE functionality

Delivers added functionality and cost advantages through eliminating additional cabling.



MXMag Inverted (Tab-Up)  
Connector 21.4mm (0.85") Depth



MXMag Dual-Port Inverted (Tab-Up)  
Connector 21.4mm (0.85") Depth



MXMag Tab-Down Connector  
21.4mm (0.85") Depth

Available in temperature ranges 0 to +70°C and -40 to +85°C

Suitable for a broad range of applications and environments

Reflow-solder compatible; pin-in-paste and automated pick-and-place options available

Provides high-speed assembly solution without compromising robust through-hole PCB connection

Multiple packaging options available

Tape and reel packaging for pick-and-place applications and tray packaging for standard assembly

## Applications

### Telecommunications/Networking

- Hubs
- Servers
- Printers

### Industrial

- PoE Cameras for machine vision
- PLC Controllers
- Network Interfaces
- Motion Control
- Sensor Networks

### Commercial

- Set-Top Boxes
- Internet of Things Applications

### Infrastructure

- Wireless Access Points



Set-Top Box



Point of Sale (POS) Terminal



Access Points



PLC



Camera and Vision

# MXMag RJ45 Connector Family



## Specifications

### REFERENCE INFORMATION

Packaging: Tray  
 UL File No.: E355595  
 Mates with: IEC 60603 / TIA-1096-A  
 Designed In: Millimeters  
 RoHS: Yes  
 Halogen Free: Yes  
 Glow Wire Compliant: No

### ELECTRICAL

Voltage (max.): 125V  
 Current (max.): 1.0A  
 Contact Resistance: 10mΩ  
 Dielectric Withstanding Voltage: 2.25kV DC

### MECHANICAL

Contact Insertion Force: n/a  
 Contact Retention to Housing: n/a  
 Insertion Force to PCB: n/a  
 Durability  
 Mating cycles (min.): 2,500  
 Vibration Test:  
 Duration of discontinuity: 0.1 μsecond

### PHYSICAL

Housing: LCP Black  
 Contact: Copper Alloy  
 Plating:  
 Contact Area — Palladium Nickel with Gold Flash  
 Solder Tail Area — Tin  
 Underplating — Nickel  
 PCB Thickness: Varied  
 Operating Temperature:  
 Commercial: 0 to 70°C  
 Industrial: -40 to 85°C  
 Environmental Exposure:  
 (EIA-364-65 Class IIA) 10 years

## Ordering Information

### 21.6mm (0.85") Inverted (Tab-Up)

Order No.	LEDs	Ethernet Speed	Reflow or Pick and Place Capable?	Operating Temp	Packaging
93745-3608	GRN/YLW-GRN/YLW	Gigabit	Yes	0°C to +70°C	Tray
93627-3601	GRN-GRN				Tray
93627-3608	GRN/YLW-GRN/YLW				Tray
93462-8320	No	Fast Ethernet	No	-40°C to +85°C	Tray
93637-8617	GRN-ORG/YLW	Gigabit			Tray
93627-8020	No				Tray
93635-8314	YLW/GRN-YLW/GRN	Fast Ethernet			Tray
93627-3606	GRN/YLW-GRN/YLW	Gigabit			Tray
				0°C to +70°C	Tray

### 21.6mm (0.85") Standard (Tab-Down)

Order No.	LEDs	Ethernet Speed	Reflow or Pick and Place Capable?	Operating Temp	Packaging
93626-3006	GRN-YLW	Gigabit	No	0°C to 70°C	Tray
93626-3508	GRN/YLW-GRN/YLW			0°C to 70°C	Tray
93626-8020	No			-40 to +85°C	Tray
93626-8520	No			-40 to +85°C	Tray
93634-3206	GRN-YLW	Fast Ethernet	No	0°C to 70°C	Tray
93634-8020	No			-40 to +85°C	Tray
93753-5320	No			Yes	-40 to +85°C
93634-3205	GRN-GRN/YLW		No	0°C to 70°C	Tray
93771-8020	No			0°C to 70°C	Tray

### 25.4mm (1.00") Inverted (Tab-Up)

Order No.	LEDs	Ethernet Speed	Reflow or Pick and Place Capable?	Operating Temp	Packaging
93628-3721	GRN-GRN	Gigabit	No	0 to +70°C	Tray
93628-3725	GRN-GRN/YLW		No	0 to +70°C	Tray
93755-5226	GRN-YLW	Fast Ethernet	Yes	-40 to +85°C	Tape and Reel
93767-5126	GRN-YLW		Yes (No Shield Springs)	-40 to +85°C	Tape and Reel
93767-8126	GRN-YLW		Yes	-40 to +85°C	Tape and Reel
93463-5206	GRN-YLW		Yes	-40 to +85°C	Tray
93463-3214	YLW-GRN		Yes	0 to +70°C	Tray
93463-5205	GRN-YLW		No	-40 to +85°C	Tray
93755-5225	GRN-GRN/YLW		No	-40 to +85°C	Tray

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## Ordering Information

### 21.4mm (0.85") Inverted (Tab-Up) Power Over Ethernet (15W)

Part No.	Left LED	Right LED	EtherNet Speed	Operating Temp	Packaging
<a href="#">938093046</a>	250ohm Green	250ohm Yellow	Fast Ethernet	0 to 70°C	Tray
<a href="#">938098041</a>	250ohm Green	250ohm Green	Fast Ethernet	-40 to 85°C	Tray
<a href="#">938098046</a>	250ohm Green	250ohm Yellow	Fast Ethernet	-40 to 85°C	Tray
<a href="#">938098020</a>	None	None	Fast Ethernet	-40 to 85°C	Tray
<a href="#">938093020</a>	None	None	Fast Ethernet	0 to 70°C	Tray

### 21.4mm (0.85") Inverted (Tab-Up) Dual Port

Series No.	Description	LEDs	Physical Pin Length	Operating Temp	Packaging
<a href="#">93824-3006</a>	Fast Ethernet 4 Core Dual-Port RJ45 Connector	Green-Yellow	2.70 mm	0°C to +70°C	Tray
<a href="#">93824-3020</a>		None		0°C to +70°C	Tray
<a href="#">93825-8020</a>	Fast Ethernet 6 Core Dual-Port RJ45 Connector	None		-40°C to +85°C	Tray
<a href="#">93826-3001</a>	Gigabit 8 Core Dual-Port RJ45 Connector	Green-Green		0°C to +70°C	Tray
<a href="#">93826-3006</a>		Green-Yellow		0°C to +70°C	Tray
<a href="#">93826-3020</a>		None		0°C to +70°C	Tray
<a href="#">93828-3026</a>	Fast Ethernet 4 Core Dual-Port RJ45 Connector	Green-Yellow	2.20mm	0°C to +70°C	Tray
<a href="#">93828-8020</a>		None		-40°C to +85°C	Tray / Reel

[www.molex.com/link/mxmag.html](http://www.molex.com/link/mxmag.html)

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