

# RJ45 In-Line Coupler

Connecting Ethernet cables can often be challenging, particularly when rerouting or replacing cables isn't an option. RJ45 in-line coupler address these issues by providing a reliable, standardized, and cost-effective solution. It allows for convenient cable extensions or device swapping, while ensuring compatibility and continuity within the network setup.



## ADVANTAGES AND FEATURES

### Enhances suitability for use in various enclosures and equipment housings

Panel mounting provides enhanced accessibility and reliability by ensuring a secure and organized connection point in various enclosures and equipment housings.

### Allows easy swapping out of cables or devices without rewiring

The flexibility of the RJ45 In-Line Coupler streamlines the process of swapping cables or devices by providing a simple, plug-and-play solution. This enhances ease of maintenance, reduces downtime and allows for adaptable network configurations without the need for extensive rewiring.

Current (max.)	1.0A
Voltage (max.)	100V DC
Contact Resistance	20 milliohms
Durability	750 cycles
Plating	Gold-Nickel
Operating Temperatures	0 to 70°C

### Ensures good electrical conductivity and corrosion resistance

The gold-over-nickel finish ensures reliable performance and longevity of the coupler. Gold provides superior conductivity and corrosion resistance, while the nickel underlayer enhances adhesion and provides additional protection.

### Enhances versatility and ease of use

RJ45 In-Line Coupler mates with modular plugs regardless of their orientation, allowing connections that result in a more user-friendly experience and greater flexibility in various network setups.

## MARKETS AND APPLICATIONS

### Telecommunications

Patch panels  
Routers

### Networking

Network switches  
Data centers

### Industrial Automation

Control systems  
Sensor networks

### Wireless Infrastructure

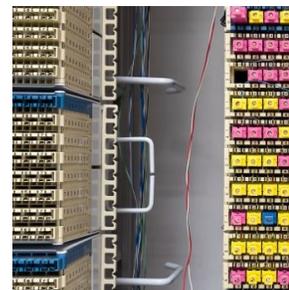
AV installations

### Servers & Storage

Servers  
Hubs



Routers



Network Switches



Control Systems

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## SPECIFICATIONS

### Reference Information

Packaging: Tray  
 UL File No.: E107635  
 Mates with: IEC 60603-7 / TIA-1096-A  
 RoHS: Compliant  
 Low Halogen: Yes

### Mechanical

Durability: 750 cycles  
 Vibration Test: Discontinuities 10  $\mu$ s maximum

### Electrical

Voltage (max.): 100V DC  
 Current (max.): 1.0A  
 Contact Resistance: 20 milliohms  
 Dielectric strength:  
   Between terminals: 1000 V DC OR AC peak  
   Between terminals and shielding case  
   (if present): 1500 V DC OR AC peak

### Physical

Housing: PC  
 Contact: Copper Alloy  
 Plating:  
   Contact Area — Gold  
   Underplating — Nickel  
 Operating Temperature: 0 to 70°C

## ORDERING INFORMATION

Part Number	Ethernet Speed	Positons/Loaded Contacts	Packaging
2244610001	Cat3	8/8	Tray

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