

## Cat 5e UTP Modular RJ45 Connector, 1U Gold-Plated Contacts



Model: NPN-RJ45-1C5U-PC10 / NPN-RJ45-1C5U-PC100

### Main Features:

- ✧ Durable design:  $\geq 1000$  mating cycles;
- ✧ Trident head ensures stable contact for rapid transmission;
- ✧  $1\mu\text{in}$  gold-plated contacts for optimized signal integrity.

### Connector Type

Category	Cat 5e
Type	8P8C (Eight Position, Eight Contact)
Shielding	Unshielded

### Material

Housing Material	Polycarbonate
Contact Material	Copper
Contact Surface Material	Gold Plating on Nickel Barrier
Gold Plating Thickness	1U ( $1\mu\text{in}$ or $0.0254\mu\text{m}$ )

### Electrical Properties

Voltage/Current Rating	125 VAC / 1.5 A
Insulation Resistance	$\geq 500 \text{ M}\Omega$
Contact Resistance	$\leq 20 \text{ m}\Omega$
Dielectric Withstand Voltage	1500 V DC/AC Peak

### Mechanical Properties

Durability	$\geq 1000$ mating cycles
Wire Gauge	$0.85 \text{ mm} \leq \varnothing \leq 1.1 \text{ mm}$

## Environment

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Operating Temperature	-40°C to 70°C
Operating Humidity	RH 10% to 90% (non-condensing)
Storage Temperature	-40°C to 80°C
Storage Humidity	RH 5% to 96% (non-condensing)

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## General

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Dimension	23x12x8 mm (LxWxH)
Net Weight	1.5 g

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## Diagram

