

## Cat 6e UTP Modular RJ45 Connector, 3U Gold-Plated Contacts



Model: NPN-RJ45-1C6U-PC10 / NPN-RJ45-1C6U-PC100

### Main Features:

- ✧ Durable design:  $\geq 1250$  mating cycles;
- ✧ Trident head ensures stable contact for rapid transmission;
- ✧  $3\mu\text{in}$  gold-plated contacts for optimized signal integrity.

### Connector Type

Category	Cat 6e
Type	8P8C (Eight Position, Eight Contact)
Shielding	UTP (Unshielded Twisted Pair)

### Material

Housing Material	Polycarbonate
Contact Material	Copper
Contact Surface Material	Gold Plating on Nickel Barrier
Gold Plating Thickness	3U ( $3\mu\text{in}$ or $0.0762\ \mu\text{m}$ )

### 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	$\geq 1250$ mating cycles
Wire Gauge	$0.85\ \text{mm} \leq \varnothing \leq 1.1\ \text{mm}$

### Environment

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)

General

Dimension	23x12x8 mm (LxWxH)
Net Weight	1.4 g

Diagram

