



Cat 6 Shield Modular RJ45 Connector, 3U Gold-Plated Contacts

Model: NPN-RJ45-1C6SF-PC10 / NPN-RJ45-1C6SF-PC100

Main Features:

- ✧ Durable design: ≥ 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 6
Type	8P8C (Eight Position, Eight Contact)
Shielding	Shielded

Material

Housing Material	Polycarbonate
Shielding Material	Brass with nickel plating
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	≥ 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	2.2 g

Diagram

