



Tool-less Cat 6 UTP Modular RJ45 Connector, 50U Gold-Plated Contacts

Model: NPN-RJ45-1C6U-SWT1

Main Features:

- ✧ Tool-less design for effortless wire termination;
- ✧ Durable design: ≥ 1250 mating cycles, ≥ 250 termination cycles;
- ✧ High-performance optimally tuned PCB for rapid transmission;
- ✧ $50\mu\text{in}$ gold-plated contacts for optimized signal integrity.

Connector Type

Category	Cat 6
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	50U ($50\mu\text{in}$ or $1.27\ \mu\text{m}$)

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	750 V DC/AC Peak

Mechanical Properties

Durability	≥ 1250 mating cycles, ≥ 250 termination cycles
Wire Diameter	$\text{OD}\varnothing \leq 6.6\ \text{mm}$

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	53x18x15 mm (LxWxH)
Net Weight	6.1 g

Diagram

Unit: mm

