

## Tool-less Cat 6A Shielded Color-coded Keystone Jack

Model: NPN-KEY-1C6SF-180WT-GY



### Main Features:

- ✧ Color-coded design for easy identification: Red / Orange / Green / Blue / Grey / White color option;
- ✧ Tool-less Design: fast Installation without any special tools;
- ✧ Fully-shielded housing of Zinc alloy;
- ✧ Durable design:  $\geq 750$  mating,  $\geq 250$  termination;
- ✧ 3U Gold-plated contacts for enhanced conductivity;
- ✧ Dual color-coded for easy T568A/B wiring scheme.

### Connector Type

Category	Cat 6A
Shielding	Shielded
Connector	RJ45 Jack
Angle	180°

### Material

Housing Material	PC
Shield Material	Zinc Alloy
IDC Material	PC Contact Jaw: Phosphor Bronze with Tin Plating, thickness = 0.5 mm
Contact Material	Phosphor Bronze with Nickel Plating, thickness = 0.3 mm
Contact Surface Material	Gold Plating, thickness = 3U (3 $\mu$ m or 0.0762 $\mu$ m)
PCB Material	FR-4, thickness = 1.6 mm

### Electrical Properties

Transmission Performance	Date Rate: up to 10 Gbps Bandwidth: 500 MHz
Standards	1. ANSI/TIA-568.2-D Cat 6A Permanent Link (90m/20m) 2. ISO/IEC 11801-1 Class E A Permanent Link (90m/20m)

Voltage/Current Rating	125 VAC RMS / 1.5 A
Insulation Resistance	≥ 500 MΩ at 100 VDC
Contact Resistance	≤ 20 mΩ
Dielectric Strength	1000 VDC or 700 VAC RMS, 60 Hz, 1 minute

### Mechanical Properties

RJ45 Jack	≥ 750 mating cycles
IDC Lifespan	≥ 250 termination cycles
Wire Gauge	AWG 22-26
Wiring Scheme	T568A/T568B

### Environment

Operating Temperature	-25°C to 70°C
Operating Humidity	RH 10% to 90% (non-condensing)
Storage Temperature	-40°C to 85°C
Storage Humidity	RH 5% to 96% (non-condensing)

### General

Dimension	14.8 x 19.8 x 36 mm (WxHxD)
Net Weight	18.5 g

Diagram unit: mm

