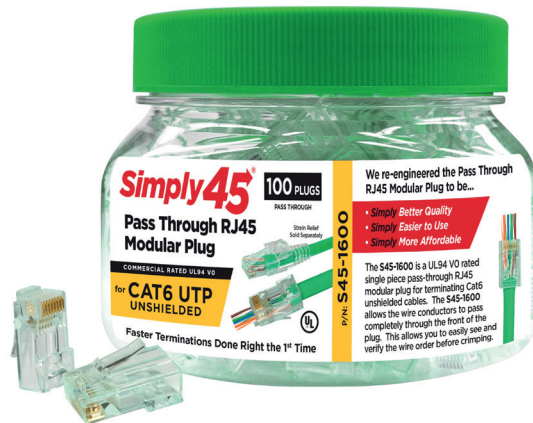




# Product Data Sheet

## Simply45® – CAT6 UTP

### Description



Simply45® is the industry-leading brand for RJ45 modular plug innovation and performance solutions.

**Single Piece Design.** The S45-1600 is a single-piece unshielded pass-through RJ45 modular plug for use with unshielded LAN cables. No-load bar required. Supports performance standards: ANSI/TIA 568.2-D for Cat6; ISO/IEC 11801 Class E.

**3 Prong Pin Design with 50µ of True 24ct Gold Plating.** All Simply45® pass-through RJ45 modular plugs uses only 50µ 24ct gold plated 3-Prong pin design instead of a 2-Prong design as found on most other pass-through RJ45 modular plugs. A 3-Prong pin provides 3 points of contact with the copper wire conductor instead of 2. This improves electrical performance and signal integrity. A 3-prong pin also holds stronger onto the wire conductors.

**Solid and Stranded LAN Cables.** The S45-1600 is ideal for most Cat6 UTP (unshielded twisted pair) solid 23 AWG LAN cables with a maximum cable diameter of 7.0mm (0.276"). The S45-1600 also works great with stranded unshielded LAN cables such as used on patch cords/leads. The S45-1600 works with most stranded unshielded Cat5e and Cat6 LAN cables, but if your stranded LAN cable has a thicker outer jacket or larger cable OD commonly found on PUR jackets, then our S45-1700 may be the right solution for you.

**Straight-Line Wire Insert.** LAN cable wire conductors are easily inserted in a straight-line arrangement out through the front of the unshielded RJ45 pass-through modular plug. The S45-1600 accommodates 23-24 AWG Solid and 28-26 AWG stranded LAN cable wire conductor sizes 0.95mm – 1.05mm (0.037" – 0.041"). For larger UTP wire conductor sizes, please refer to our Staggered Hi/Lo wire alignment found on the Simply45® part S45-1700 or S45-1700P.

**Improved Crosstalk Performance.** The unique internal design of the S45-1600 pass-through RJ45 modular plug allows the LAN cable to be inserted further into the RJ45 plug. This reduces the length of untwisted wires improving NEXT performance. The S45-1600 accommodates most Cat6 LAN cables. If your LAN cable has a larger wire conductor OD than the typical Cat6, we recommend using our part S45-1700 or S45-1700P pass-through RJ45 modular plugs.

**Commercial Rated.** These RJ45 mod plugs are UL94 V0 (IEC 60695-11-10) rated for all commercial installations. These RJ45 mod plugs are recommended for CMP Plenum, CMR, CM; and LSZH up to B2ca rated LAN cables.

**Color Tinted RJ45 Modular Plugs.** The S45-1600 comes with a light green tint for easy pass-through RJ45 modular plug identification. No more trouble identifying which plug is which. All Simply45® RJ45 modular plugs are color-coded for easy identification.



# Product Data Sheet

## Simply45® – CAT6 UTP

**Color-Coded Jar Caps.** The S45-1600 jar cap is Green matching the color tint of the RJ45 mod plug. This makes it very easy to find identify the items in your bag or kit. Saves time identifying the RJ45 modular plugs that you need to use.

**UL Listed.** The S45-1600 pass-through RJ45 modular plugs are UL Listed and bear the UL Logo on the Simply45® packaging. Only Simply45® provides the UL Listed logo for quality and safety on pass-through RJ45 modular plugs. UL is the strictest 3rd party verification service in the world and products bearing the UL mark represent the highest quality and safety standards.

**PoE/PoH Rated.** The S45-1600 is ideal for PoE/PoH applications. The S45-1600 uses the correct 3-Prong Pin design; true 24ct gold plated pins and is made using the highest quality materials for RJ45 modular plugs. This all ensures lower resistance and less heat build-up than cheaper made RJ45 that are out on the market.

| Product                         | SKU        |
|---------------------------------|------------|
| CAT6 UTP PASS THROUGH RJ45 PLUG | FA-05-9005 |

## Technical Specification

### CAT6 UTP Specification

|   |   |
|---|---|
| Performance: Meets or Exceeds ANSI/TIA 568-D.2; ISO/IEC 11801 Class D; ANSI/TIA 1096-A; IEC 60603-7             | Plug Material: Polycarbonate  |
| Wire Cond(s) OD: 23 AWG : 0.95mm - 1.05mm (0.037" - 0.041")   | Plug Tolerances and Dimensions: Meets ANSI/TIA-1096-A specifications (formerly FCC Part 68) |
| Max LAN Cable OD: 7.0mm (0.276")  | Conductor Type(s): Solid and Stranded   |
| Supports PoE/PoH: Yes   | Operating Temperature: -40° C to +70° C   |
| Cable Fire Resistance Ratings: Commercial Rated, CMP, CMR, CM, CMX, LSZH up to B2ca EuroClass                   | Insertion/Extraction Life: 2000 Minimum Cycles  |
| Flame Autoextinguish: UL94 V0, IEC 60695-11-10  | Contact Resistance: 20 Milli-Ohms max   |
| Contact Material: Phosphor Bronze - .012" thick   | Current/Voltage: 30 VAC/42 VDC at 1.5 Amps  |
| Contact Plating: Min 50 Micro-Inch Pure Gold - 24 Carat Hard Gold Plate in contact area over 100 Micro-Inch Min | Compliance: UL Listed, RoHS, FCC, NEC, TAA  |
| Nickel Plating. Exceeds ANSI/TIA-1096-A specifications (formerly FCC Part 68)                                   |   |