



Cat6 Shielded External Ground - Standard WE/SS RJ45 (Jar of 50)

S45-1150

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Simply45 Shielded External Ground Standard WE/SS (8P8C) RJ45 Modular Plugs for Cat6 STP, 23AWG PE Insulated Wire Conductors 1.10-1.20mm/0.043"-0.047", Max Cable OD 8.0mm (0.315"); 2pc Plug with **Bar45** Load Bar, UL94 V0 Commercial Rated, Green Tint Plug- 50 plugs/Jar

Simply45 is the industry leading brand for RJ45 modular plug innovation and performance solutions. Introducing the **Simply45 S45-1150** Standard WE/SS (8P8C) Shielded with External Ground RJ45 Modular Plug for PE Insulated Wire Conductors such as found on Cat6 Shielded STP and Cat6a F/UTP LAN cables.

The **Simply45 S45-1150** RJ45 shielded modular plug provides better signal isolation and terminated performance than other shielded RJ45 modular plugs for larger diameter Shielded LAN cables using PE (solid polyethylene) insulated wire conductors.

Note: If you are using shielded 10G LAN cables with FPE (foamed polyethylene) insulated wire conductors we recommend using our S45-1155 Standard WE/SS RJ45 modular plug or our S45-1755P Shielded Pass Through RJ45 modular plug for 10G LAN cables.

The **S45-1150** incorporates the following features:

Two Piece Plug. We tried all that we could to use a one-piece design, but it proved too difficult to work with during the testing trials. As such, we separated the metal shell shield from the RJ45 body. This allowed us to make additional modifications and the result is a dramatically improved termination process that is *faster and easier to use*. The metal shell quickly and easily snaps onto the plug body just prior to crimping. Separating the plug body from the metal shield allows the large diameter shielded LAN cables to be inserted further into the plug. This is a significant advancement in RJ45 design because this feature improves NEXT performance by reducing the length of untwisted wires inside the plug.

The **S45-1150** supports performance standards: ANSI/TIA 568.2-D for Cat6a and Cat6; ISO/IEC 11801 Class Ea and E. Supports 10GBaseT performance applications over PE insulated shielded twisted pair cables. For FPE insulated shielded LAN cables typically found on 10G LAN cables, we recommend our **S45-1155** Standard RJ45 solution or our **ProSeries** Shielded Pass Through RJ45 modular plug S45-1755P.

Bar45 Load Bar. The exclusive **Simply45 Bar45** are load bars designed to match specific **Simply45** RJ45 modular plugs to improve termination performance and SIMPLIFY the termination process. The innovative **S45-1150 Bar45** are designed specifically for our part **S45-1150** and are the easiest to use load bars ever made for larger shielded LAN cables such as Cat6 STP and Cat6a F/UTP with PE insulated wires.

The **S45-1150 Bar45** is designed specifically for our **S45-1150** Standard Shielded with External Ground WE/SS (8P8C) RJ45 modular plug.

The **S45-1150 Bar45** does several things:

1. **S45-1150 Bar45** is made of materials that provide better signal isolation and substantially reduces the effects of crosstalk inside the RJ45 mod plug. **Bar45** absorbs and limits both near-end crosstalk (NEXT) and far-end crosstalk (FEXT), thereby improving cable performance.

2. The **S45-1150 Bar45** is correctly designed to maximize performance for PE insulated LAN cable wire conductors. It has a more traditional load bar design and works similar to other load bars you may have used. However, the materials we use to create the **S45-1150 Bar45** are unique and provides better signal isolation and terminated performance than other load bars on the market. The **S45-1150 Bar45** uses a Hi/Lo stagger design that slides down to the LAN cable jacket. This significantly reduces the amount of untwisted wires inside the RJ45 plug.
3. **S45-1150 Bar45** combined with the **S45-1150** internal RJ45 design innovations allows the LAN cable itself to be inserted further into the plug, reducing the length of untwisted wires. This symbiotic design of load bar and internal RJ45 plug design helps maintain improved headroom performance and better signal integrity than any other Standard RJ45 solution for larger diameter shielded LAN cables with PE insulated wires.

Works in all compliant RJ45 modular plug sockets. Supports performance standards: ANSI/TIA 568.2-D and ISO/IEC 11801.

3 Prong Pin Design with 50μ of True 24ct Gold Plating. All **Simply45** Standard WE/SS RJ45 modular plugs use only 50μ 24ct gold plated 3-Prong pin design instead of a 2-Prong design as found on many other Standard 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 LAN Cables. The **S45-1150** is ideal for most Cat6 STP (shielded twisted pair) solid and Cat6a F/UTP solid (PE insulated) 23 AWG LAN cables with maximum cable diameter of 8.0mm (0.315") and wire conductor sizes 1.10mm - 1.20mm (0.043" - 0.047"). The **S45-1150** works great with larger LAN cable diameters such as found on Cat6 Shielded solid and Cat6a F/UTP (PE Insulated) solid.

Improved Crosstalk Performance. The unique internal design of the **S45-1150** Standard 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. Our **S45-1150** plug design and **Bar45** provide the best crosstalk performance of any shielded RJ45 plug on the market. The **S45-1150** accommodates most Cat6 STP and Cat6a F/UTP (PE insulated) LAN cables.

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 **S45-1150** 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.

Wide Mouth Jar for Easy Hand Access. No need to spill RJ45 mod plugs out of the jar just to reach them. Most hands can easily reach the last plug in the jar.

Color Coded Jar Caps. The **S45-1150** 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 **S45-1150** Standard WE/SS 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 **S45-1150** is ideal for PoE/PoH applications. The **S45-1150** uses the correct 3-Prong Pin design; true 24ct gold plated pins; fully shielded 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.

Compliant to Industry Standards. ANSI/TIA 568.2-D Class E, 1096-A; ISO/IEC 11801 Class E, 60603-7, 8877:1992; FCC

Dimensions (in/mm): 3.9 x 3.7 x 3.2 in / 100 x 95 x 82 mm