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# Best Practice Termination Instructions

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## Simply45<sup>®</sup> Standard Series Shielded RJ45 Modular Plugs (patent pending)

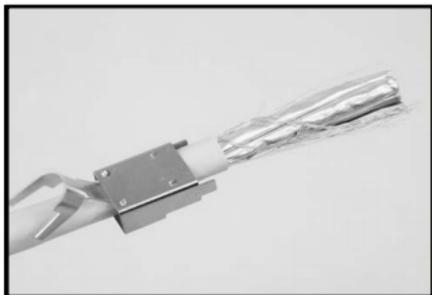


Congratulations on purchasing the Simply45<sup>®</sup> **S45-1150** Standard Series Shielded External Ground RJ45 Modular Plugs for Cat6 STP Cables PE Insulated. Our S45-1150 plugs include the uniquely designed and patent pending **Bar45<sup>™</sup>**.



### STEP 1

Using the Simply45 Adjustable LAN Cable Stripper (**S45-S01BL/YL**), score the cable jacket about 1.25" (3cm) from the cable end. Be sure not to cut too deep where the wire conductors could be nicked. Remove the stripped cable jacket.



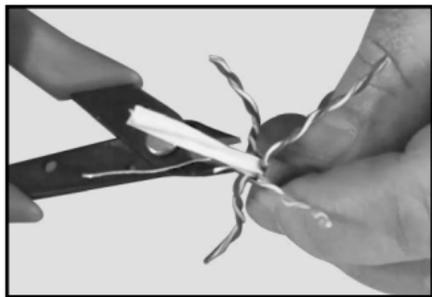
### STEP 2

Slide the **S45-1150** metal shell onto the cable jacket with the front of the shell facing the termination end. Slide it back out of the way for the moment.



### STEP 3

Trim all cable shielding (AL foil, metal braid) back to the cable jacket. We recommend using the Simply45 5" Angled Flush Cutter (**S45-801**). Do not cut off the drain wire. Fold the drain wire straight back about 1inch (2.5cm) over the cable jacket. If there is a center spline/pair separator cut it off as close to the jacket as possible





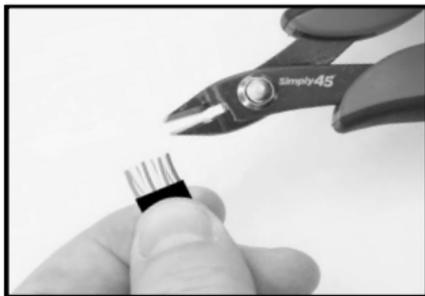
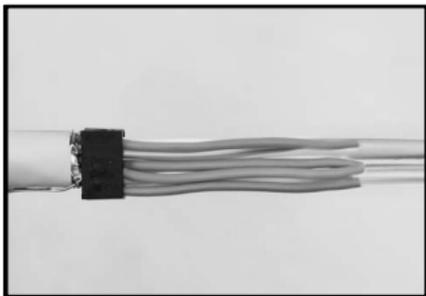
## STEP 4

Untwist and straighten the wire conductors. We recommend using the Simply45 Adjustable LAN Cable Stripper (**S45-S01BL/YL**) that has a wire straightener comb on the top. Next, align the wires in the correct alignment pattern (Type A or B). The B pattern is the most used today.



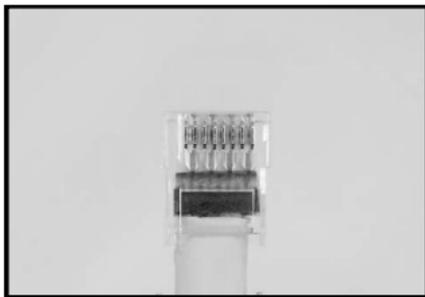
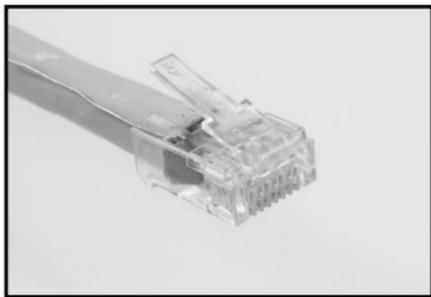
## STEP 5

Bar45™ - Following the pattern above, insert the top and bottom wires into the load bar. Once inserted, make sure the wires follow the pattern correctly.



## STEP 6

Slide the Bar45 load bar as far back to the cable jacket as you can. [NOTE: This is important for reducing the length of untwisted wire inside the RJ45 plug and improving termination performance]. Next, using the **S45-801** Flush Cutter, trim the wire ends straight leaving about 0.4" (1.0cm) protruding past the front of the Bar45 load bar.



## STEP 7

Insert the cable with the Bar45 into the plug. Work the cable jacket into the plug until fully inserted. Looking from underneath the plug, the cable jacket should meet or come close to the horizontal line (see above). Make sure the drain wire remains straight down the cable jacket.



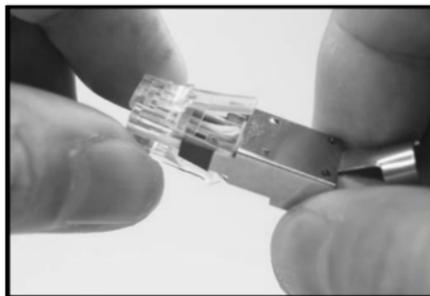
### STEP 8

Insert the loaded plug into the Simply45 Heavy Duty RJ45 Crimper Tool (**S45-C100/S45-C101**). Make sure to completely insert the plug into the crimper socket.



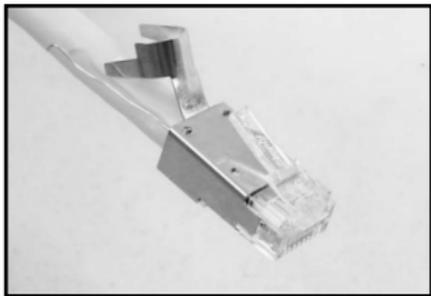
### STEP 9

Compress the crimper handles all the way down with one swift and firm motion until the handles release.



### STEP 10

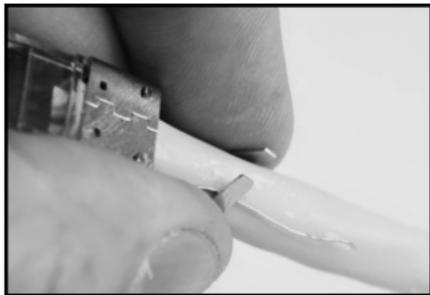
Slide the **S45-1150** metal shell over the plug body as shown above. Press-In on the bottom of the plug as you attach the shell. This will allow the plug to snap into the metal shell. The drain wire should remain straight back against the cable jacket and come out of the back of the shell and extend past the external ground arm.





### STEP 11

Push the external ground arm down over the drain wire and against the cable jacket. The drain wire should meet the rear end of the external ground arm.



### STEP 12

Using your fingers or a flat head screwdriver, loosely fold the external ground arm wings around the cable jacket.



### STEP 13

Using the external ground arm crimp feature on the Simply45 Shielded External Ground Crimper (**S45-C101**), crimp the external ground wings until securely folded around the cable jacket. You can also use pliers (**S45-802**) to accomplish this task.



### STEP 14

Inspect the finished product.