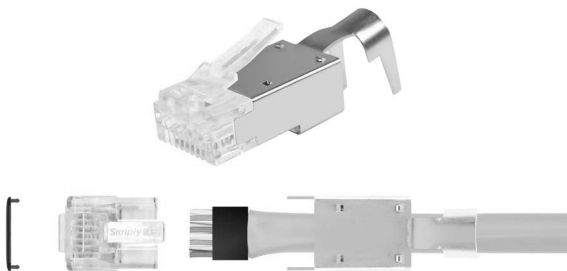# Best Practice Termination Instructions

Simply45™ ProSeries Pass Through Shielded RJ45 Modular Plugs
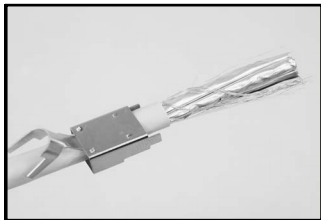**(patent pending)**

Congratulations on purchasing the Simply45™ **S45-1755P** ProSeries Pass Through Shielded External Ground RJ45 Modular Plugs for 10G Shielded and other large diameter shielded LAN cables. Our ProSeries Pass Through RJ45 plugs include the uniquely designed and patent pending Cap45™.

STEP 1
Using the Simply45 Adjustable LAN Cable Stripper (**S45-S01BL/YL**) or wire stripper on the Simply45 Heavy Duty RJ45 Crimp Tool (**S45-C100/S45-C101**), score the cable jacket about 2" (5cm) from the cable end Be sure not to cut too deep where the wire conductors could be nicked. Remove the stripped cable jacket.
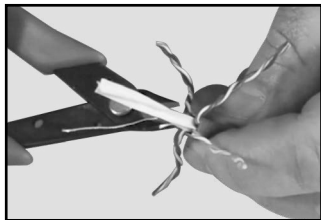

STEP 2
Slide the **S45-1755P** metal shell onto the cable jacket with the front of the shell facing the termination end. Slide it back out of the way for the moment.
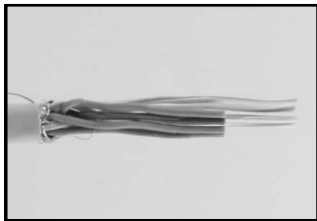

STEP 3
Trim all cable shielding (AL foil, metal braid) back to the cable jacket. We recommend using the Simply45 5" Angled Flush Cutter (**S45-801**). Do not cut off the drain wire. Fold the drain wire straight back about 1" (2.5cm) over the cable jacket. If there is a center spline/pair separator cut it off as close to the jacket as possible without nicking the wire conductors.

T568A				**T568B**			
WG	WO	WBL	WBR	WO	WG	WBL	WBR

TOP ROW

BOTTOM ROW

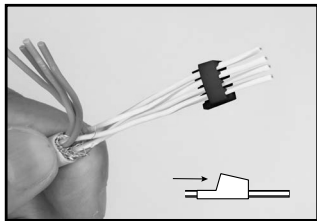| GR | BL | O | BR | O | BL | G | BR |

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.
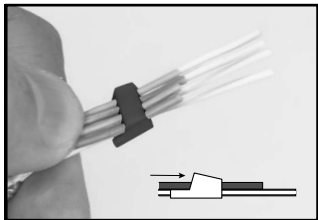

STEP 5
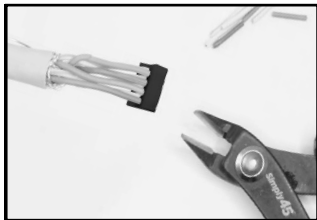Using the **S45-801** Flush Cutter, trim the solid wires back about 3/4" (2cm).

STEP 6
Following the pattern above, insert the 4 striped wires first. Make sure the wires are fully laid into the load bar.

STEP 7
Then insert the 4 solid wires.

STEP 8
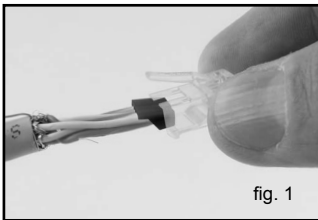Next, using the **S45-801** Flush Cutter, trim the wires flush to the load bar but leave at least 1"(2.5cm) of wire.
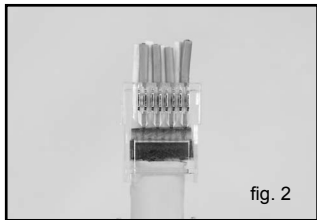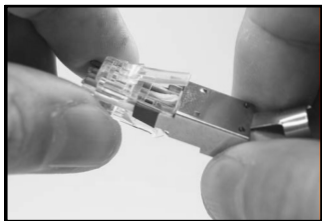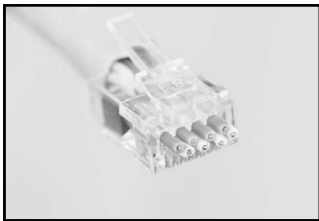

fig. 1

fig. 2

STEP 9
Insert the cable with the BarS45 into the plug (fig 1). Then push the wires to come out through the front the plug as shown above (fig. 2). The **S45-1755P** plug is designed to accommodate insertion of large diameter cables up to 8.0mm (0.315"). 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 (fig. 2). Make sure the drain wire remains straight down the cable jacket.

STEP 10
Verify that the wires are still correctly aligned to the pattern. Slide the **S45-1755P** 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 metal shell and extend pass the external ground arm.
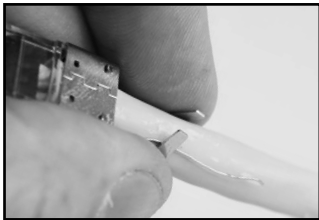

STEP 11
Insert the loaded plug into the Simply45 Heavy Duty RJ45 Crimp Tool (**S45-C100/ S45-C101**). Make sure to completely insert the plug into the crimper socket.
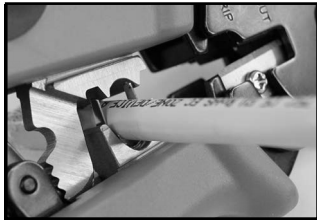
STEP 12
Compress the crimper handles all the way down with one swift and firm motion until the handles release.
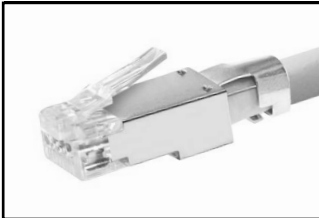
STEP 13
Push the external ground arm down over the drain wire and against the cable jacket. The drain wire should meet the rear end of the external ground arm. Using your fingers or a flat head screwdriver, loosely fold the external ground arm wings around the cable jacket.
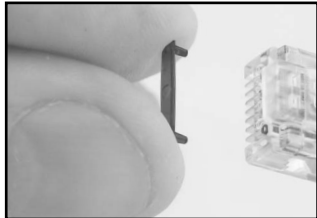

STEP 14
Using the external ground arm crimp feature on the Simply45 Shielded External Ground Crimper (**S45-C101**), crimp the external ground wings until securely folded around the cable jacket. You can also use pliers (**S45-802**) to accomplish this task.

STEP 15
Inspect the terminated plug to be sure wires have been properly trimmed. Then align the 2 posts on the Cap45 with the 2 holes on the front of the plug. Push the posts into the plug until the Cap45 is snug to the plug body.

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You can view these instructions online and learn more Best Practices at **www.simply45.com**