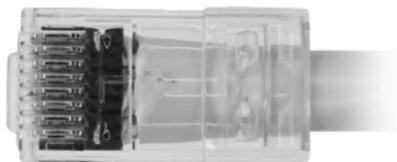

Best Practice Termination Instructions

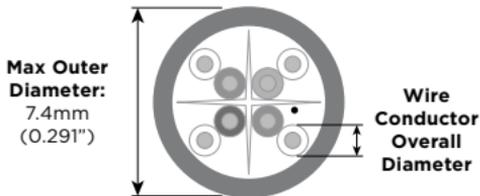
Congratulations on purchasing Simply45's Standard WE/SS (8P8C) RJ45 Modular Plug for Cat6/6a UTP cables. These RJ45 plugs include the uniquely designed Simply45 Bar45™ load bar (patent pending).

1. Bar45 uses a Hi/Lo stagger design and is made of a material that provides better signal isolation improving NEXT performance;
2. On **S45-1100**, the Bar45 is located over the RJ45 pins. This allows the LAN cable to be inserted deeper into the Plug. This reduces the length of untwisted wires improving signal integrity and negating crosstalk interference.

For improved termination performance, please follow the step by step instructions for terminating the **S45-1100** RJ45 modular plugs.



S45-1100 **LAN CABLE Specifications** **UTP/Unshielded**



Wire Conductor Diameter Size Range:
23 AWG: 1.05mm - 1.17mm (0.041" - 0.046")



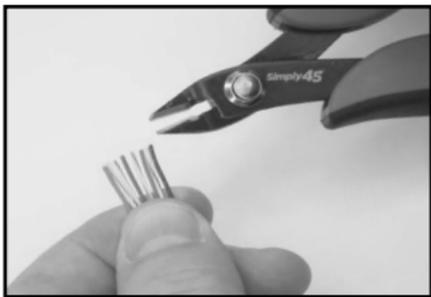
STEP 1

If using Cat6 UTP cable, trim center spline/pair separator as close to the cable jacket as possible without nicking any of the wire conductors.



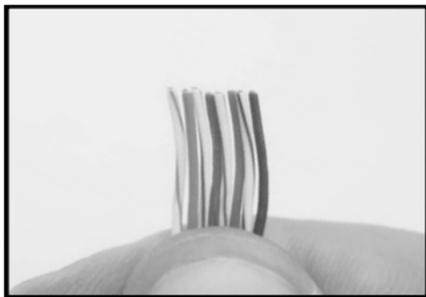
STEP 2

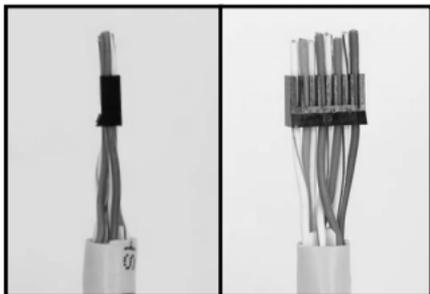
Make sure each wire conductor is straight. We recommend using the Simply45 Adjustable LAN Cable Stripper (Part: **S45-S01BL/YL**) that has a wire straightener comb on the top.



STEP 3

Then straighten and align wires to correct alignment pattern (Type A or B). The B Pattern is most commonly used today. Using angled flush cutter tool (such as Simply45 part: **S45-801**), trim wire ends straight before inserting into the load bar.





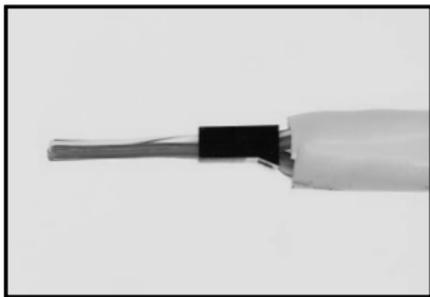
STEP 4

Insert the Pattern Aligned wires as shown above (B pattern shown)

WIRING CHART

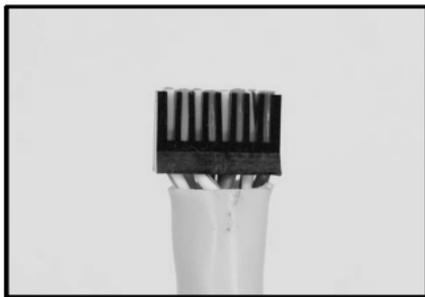
T568A	1	2	3	4
	W/G	G	W/O	BL
	5	6	7	8
	W/BL	O	W/BR	BR

T568B	1	2	3	4
	W/O	O	W/G	BL
	5	6	7	8
	W/BL	G	W/BR	BR



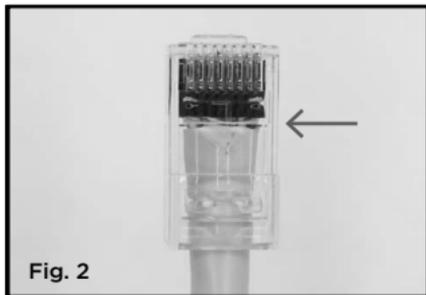
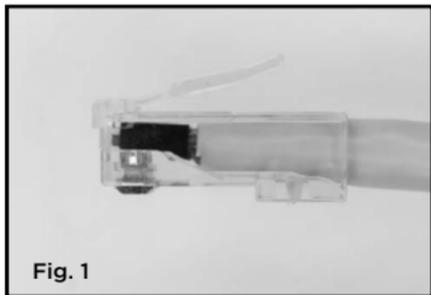
STEP 5

Slide Bar45 down until it touches or comes close to the cable jacket.



STEP 6

Then trim wires flush with the load bar using the Angled Flush Cutter (part: **S45-801**). Please be sure to trim wires properly. If wires are not trimmed close to the load bar, the load bar will not set properly over the Plug pins.



STEP 7

Insert the cable with the Bar45 into the plug with the load bar over the pins. (fig. 1) Notice in the picture (fig. 2) that the cable jacket should come to the horizontal line underneath the plug (**S45-1100**).



STEP 8

Insert the loaded plug into the Simply45 Crimper socket. Be sure that plug is fully inserted. Then complete crimping cycle.