

Proper Termination of SCP Part: 10G-FP Field Plug For HDBaseT™ Installations

Terminating Shielded Category Cables for HDBaseT™ applications can be challenging. This is especially true for more advanced cables such as Cat6A, Cat7a, and other 10GBaseT shielded cable configurations. The SCP part: 10G-FP is an advanced RJ45 Field Plug that improves system performance, reliability, and ease of termination.

When terminating these advanced Category Cables with our 10G-FP Field Plug, please be sure you follow proper termination instructions and that proper system grounding safety requirements are followed. Improper termination and/or incomplete grounding can lead to potential ground loops or shorting issues with your system.

SCP includes a detailed termination instruction sheet with each 10G-FP connector (See Figure 1).

SCP Category Cables have all conductor wires clearly color coded for easier termination. The second wire of each pair is made with a lighter shade of the primary color. Some manufacturer brands will include only white secondary conductors which can easily cause improper pair alignment.

Your wire alignments (T568B Wiring Standard) for the 10G-FP connector should match exactly as detailed in Fig.2 Load Bar diagram. Fig.4 shows the correct wire alignment. Fig.5 is an example of an incorrect wire alignment.

Fig.2 10G-FP Load Bar

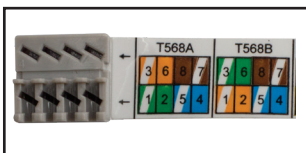


Fig.3 10G-FP

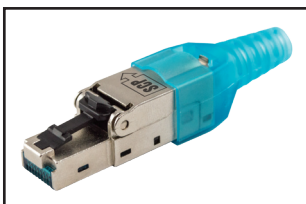


Fig.4 - Correct Pair Alignment

Fig.5 - Incorrect Pair Alignment

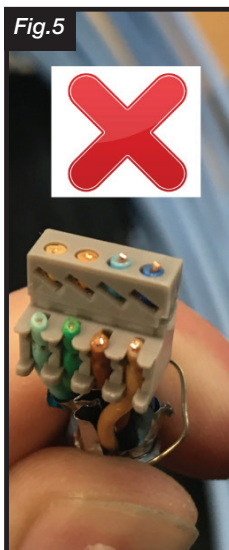


Fig.1 Termination Instructions

SCP Part No. 10G-FP
Pro Grade 10G RJ45 Field Plug
CAT6A, CAT7/7A, CAT6 FTP
Full Shield, 1 Piece Design, Load Bar,
Strain Relief, AWG 26-22, Class Ea Rated

Instruction Manual

JACK DESIGNATIONS	TIA / EIA T568A	TIA / EIA T568B	INDUSTRIAL
1	White/Green	White/Orange	Yellow
2	Green	Orange	Orange
3	White/Orange	White/Green	White
4	Orange	Green	Blue
5	Blue	Blue	
6	White/Blue	White/Blue	
7	White/Brown	White/Brown	
8	Brown	Brown	

- ① Remove the stopper before installation. **Cover Stopper**
- ② Insert cable into strain relief boot, strip off 1.2 inch of cable jacket, fold back the drain wire. 1.2" (30mm)
- ③ Fan out all four twisted pairs, following the color coding label and allocate each conductors into proper slots on wiring cap. Trim the ends of conductors.
- ④ Remove the wiring label before place wiring cap on plug.
- ⑤ Place the wiring cap onto plug, use plier to clamp wiring cap until it completely snap-in to effect the connection.
- ⑥ Close plug cover, make sure the drain wire is in proper contact with grounding clip on plug. Pull back strain relief boot to cover the plug, fasten supplied cable tie to secure grounding contact. **Drain Wire**, **Cable Tie**

Unload the cable
Cut off cable tie, remove the boot. Using flat screw driver and pry gently on plug cover one end first and the other end subsequently to open it.

Boot adjustment
Cut the end of boot to fit your cable OD.