

HD Field Termination System Instructions

Thank you for choosing AudioQuest's HD Field Termination System. Please use care when working with this system as small sharp tools are required. It is recommended that you wear safety glasses whenever you are working with this system.

To terminate one cable, you will need the following tools:

Note: Only the Crimp tool is included with the termination system.



1. Small awl or flathead screwdriver
2. Small precision pair of sharp diagonal cutters
3. Needle nose pliers (optional)
4. Sharp single-edged razor blade or Exacto knife
5. Jacket cutter (optional, but recommended)
6. Crimp tool (included with the termination system)

Step 1 Measure about 2", or about 120mm, of cable (Fig. 1). Using a sharp blade or a jacket cutter, carefully strip back the outer jacket and remove (Fig. 2-3).

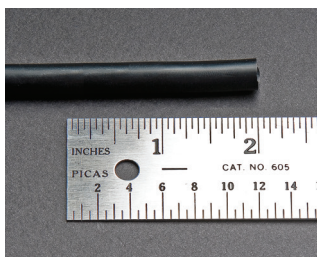


Figure 1.



Figure 2.

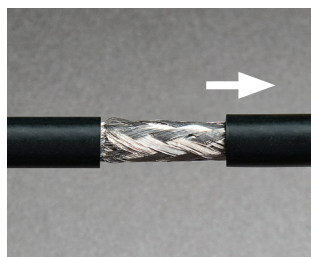


Figure 3.

Step 2 Using a small awl or flathead screwdriver, pull the braid apart slowly and carefully (Fig. 4). Pull the entire braided shield around to one side of the cable (Fig. 5). Twist the braid together and using the diagonal cutters, cut the excess braid (Fig. 6 and 7). Do not cut the drain wire.

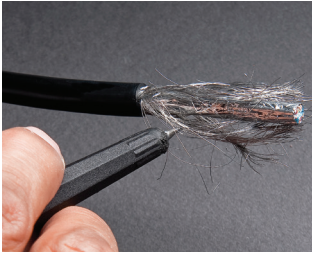


Figure 4.



Figure 5.

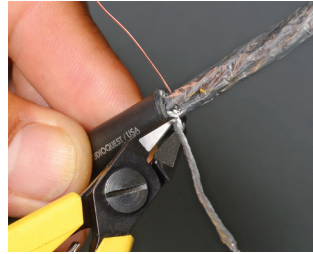


Figure 6.

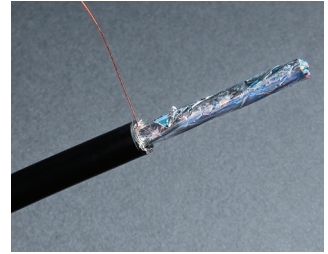


Figure 7.

Step 3 Using a sharp razor blade, carefully remove the foil by lightly notching the foil along the base (Fig. 8). Be careful to not cut too deep. This will give you enough room so you can loosen up the foil and slide it right off (Fig. 9). A layer of Mylar will come off as well. Now you've exposed the inner workings of the cable with the four twisted pairs and the control wires.

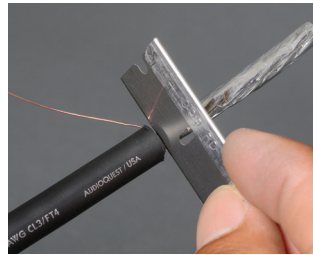


Figure 8.

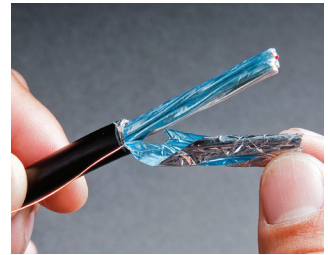


Figure 9.

Step 4 Using a sharp razor blade, take the twisted pairs and carefully strip the foil and Mylar insulation leaving 3/8" (10mm) of insulation at the very base (Fig. 10). Be careful not to cut too deep. You will see the un-insulated drain wire. Be very careful not to cut the drain wire when you strip the foil and the Mylar off.

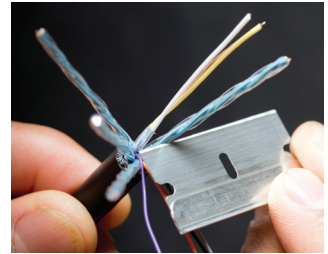


Figure 10.

Step 5 Separate wires into two even bundles of two twisted pairs and 3 control wires, and two twisted pairs and 4 control wires (Fig. 11).

1st bundle: White, Brown, Drain, White, Blue, Drain, Gray (or White), Black (or Yellow), Drain, White

2nd bundle: Purple (or Red), Orange, Yellow, White, Green, Drain, White, Red, Drain

Only work on one bundle of wires at a time. It is not necessary to remove any of the PVC insulation from any of the individual conductors (Fig. 12).

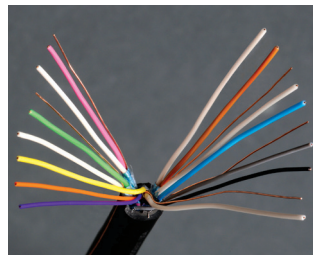


Figure 11.
Bundle 1 (left); Bundle 2 (right)

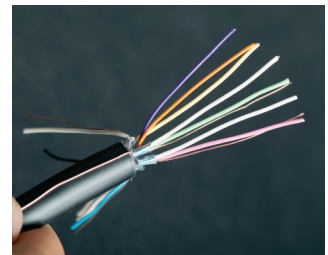


Figure 12.

Step 6 Trim the twisted pairs on a diagonal (Fig. 13) to make the load bars slip on easier. Take one load bar and start inserting the wires from the first bundle (Fig. 14). The wires go in based on a designated color sequence (Fig. 15). Insert the wires and slide the blocks down until they are about 1/2" (12mm) from the base of the cable (Fig. 16).

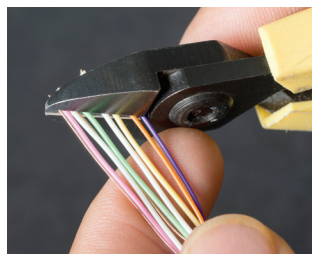


Figure 13.

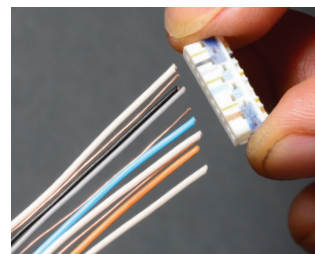


Figure 14.

HDFT Color Sequence

Pin #	19	17	15	13	11	9	7	5	3	1
wires	Twisted Pair w/silver foil		Black or Yellow	Gray or White	Twisted Pair with blue wire			Twisted Pair with brown wire		
	White	Drain			Drain	Blue	White	Drain	Brown	White

Pin #	2	4	6	8	10	12	14	16	18
wires	Twisted Pair with red wire			Twisted Pair with green wire			Twisted Pair - Yellow	Orange	Purple or Red
	Drain	Red	White	Drain	Green	White			

Figure 15.

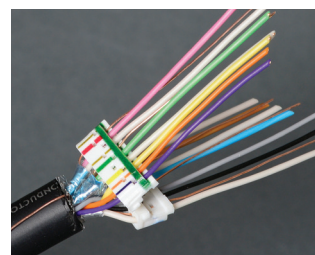


Figure 16.

Tech Tip – Twist the un-insulated drain wire and clip the end making a nice clean edge to insert in the hole. Drain wires are smaller than the control wires or the twisted pairs, so insert those last after the control wires and twisted pairs are in.

Step 7 Insert the HD saddle (or socket) in the termination block and snap in place (Fig. 17). Place the two sets of wires on each side of the termination block (Fig. 18 - 19) leaving room at the base (Fig. 20).

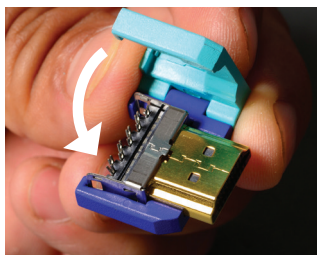


Figure 17.

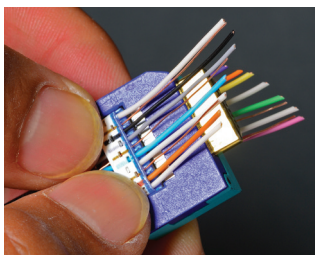


Figure 18.

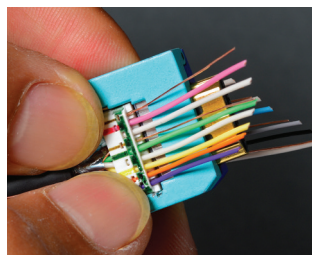


Figure 19.

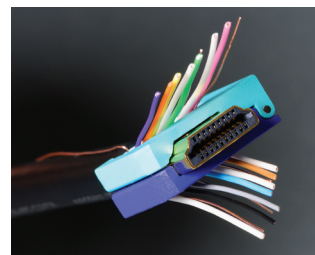


Figure 20.

Step 8 To crimp, insert the connector end into the crimp tool, and tighten until the two ends come together (Fig. 21). You will hear them click. The excess wires will cut off (Fig 22). Remove the termination blocks (Fig. 23).

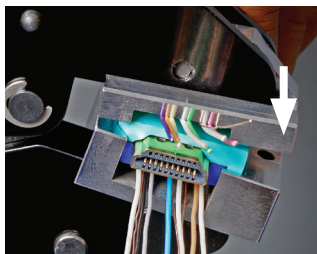


Figure 21.

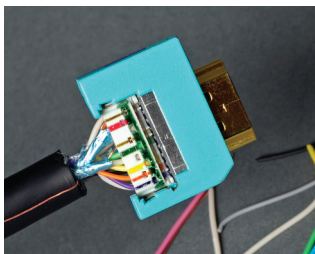


Figure 22.

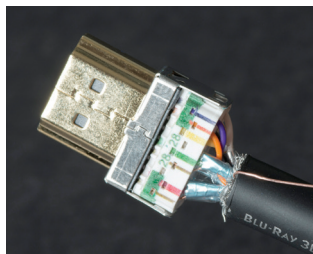


Figure 23.

Step 9 Prepare the shell by first removing the tooth (Fig. 24). Wrap the drain wire over the tooth (Fig. 25), and trim the end of drain wire. Insert the cable into the top shell (Fig. 26). Attach the tooth onto the shell (Fig. 27). Snap on the outer shell and screw in place (Fig. 28).

Note: Make sure the directionality of the cable matches the arrow on the shell.



Figure 24.

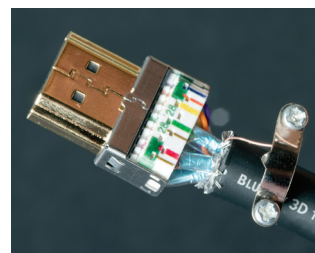


Figure 25.



Figure 26.



Figure 27.



Figure 28.

Step 10 You are now ready to test the cable (Fig 29). Plug the 'Source Out' HDMI cable (the one with the arrow pointing to the cable) into the Master tester. Plug the 'Source In' HDMI cable into the Remote tester (Fig. 30). Turn the switch on the Master tester to 'Continuity' (Fig 31). Ensure all numbers are lit up, which indicates the wires were terminated properly (Fig 32).

Note: If testing indicates a problem, re-terminate the cable and re-test.



Figure 29.



Figure 30.



Figure 31.



Figure 32.