

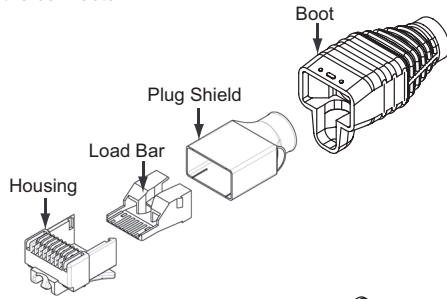
DM-8G-CONN-100 and DM-8G-CRIMP

DigitalMedia 8G™ Connectors and Crimper

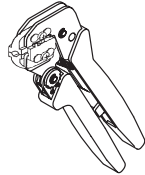
1 Introduction

DM-8G-CONN-100 and DM-8G-CRIMP are used to terminate Crestron® DigitalMedia 8G™ cable (DM-CBL-8G):

- DM-8G-CONN-100 contains 100 RJ-45 shielded modular plug connectors. As shown in the illustration below, a DM-8G-CONN connector is comprised of a housing, a load bar, and a plug shield. A boot provides a protective covering and strain relief for the connector.



- DM-8G-CRIMP (sold separately from DM-8G-CONN-100) is a tool that allows hand crimping of the DM-8G-CONN connector for proper cable termination.

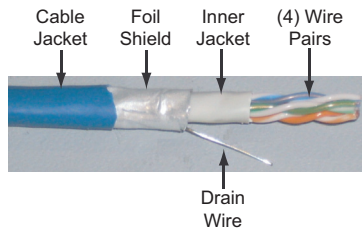


Additional items (not supplied) required for termination of the DM-CBL-8G cable are the following:

- Wire or diagonal cutter
- Razor knife or scissors

2 Preparing the Cable

A sectional view of DM-CBL-8G shielded twisted pair (STP) cable is shown below.



To prepare the cable for termination, do the following:

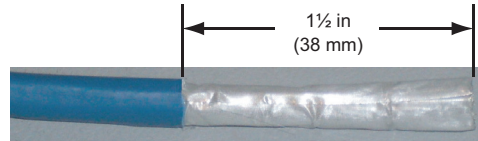


CAUTION: Do not nick the insulation of the wires or the foil shield of the cable.

- Slide the boot over the end of the cable.



- Strip the cable jacket 1½ inches (38 mm) from the end of the cable.



- Fold back the foil shield so that it lies smoothly over the cable jacket.

NOTE: If the cable you are using has a wire braid, fold back the braid over the cable jacket and then fold back the foil shield over the braid.

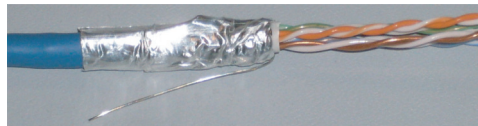


- Fold back the drain wire over the foil shield.



- Cut and remove the white inner jacket.

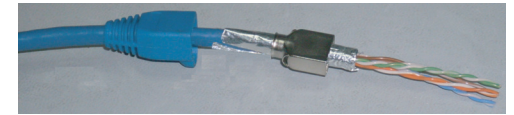
NOTE: If the cable you are using has a clear plastic wrap instead of a white inner jacket, cut and remove the plastic wrap.



- Slide the plug shield over the drain wire and foil shield past the stripped end of the cable jacket.



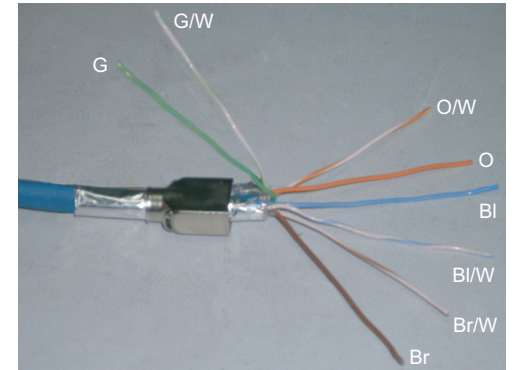
CAUTION: The foil shield should be visible on both sides of the plug shield. Do not slide the plug shield past the back end of the foil shield.



3 Positioning the Cable

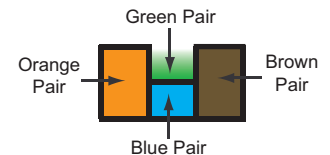
To position the cable for insertion into the connector, do the following:

- Untwist each of the four twisted wire pairs.
- Straighten and arrange the orange, blue, and brown wire pairs, and then fold back the green wire pair.



O/W = Orange/White O = Orange	Bl = Blue Bl/W = Blue/White
Br/W = Brown/White Br = Brown	G/W = Green/White G = Green

- Insert the orange, blue, and brown wire pairs through the load bar, and then insert the green wire pair into the slot of the load bar.

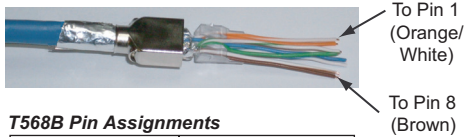


DM-8G-CONN-100 and DM-8G-CRIMP

DigitalMedia 8G™ Connectors and Crimper

3 Positioning the Cable (Continued)

4. Arrange the wire pairs for T568B termination.



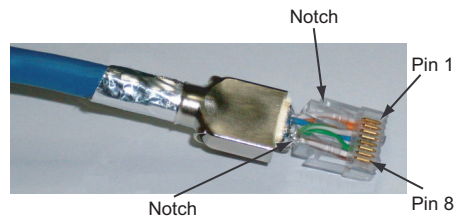
T568B Pin Assignments

PIN NUMBER	COLOR
1	Orange/White
2	Orange
3	Green/White
4	Blue
5	Blue/White
6	Green
7	Brown/White
8	Brown

5. While holding down all wires against the load bar in a flat layer, trim all wires evenly up to the front edge of the load bar.



6. While holding all wires down against the load bar, insert the front of the load bar and the ends of the wires into the cavity of the housing. Push the load bar into the housing until the load bar latches into the notch on both sides of the housing.



7. Visually verify that all wires are fully inserted into the housing with the end of the wires seated against the end of the housing cavity. If not, push the cable further into the load bar until it latches into both sides of the housing.



8. Slide the plug shield over the modular plug subassembly until the plug shield is seated against the front edge of the recessed area around the outside of the housing.

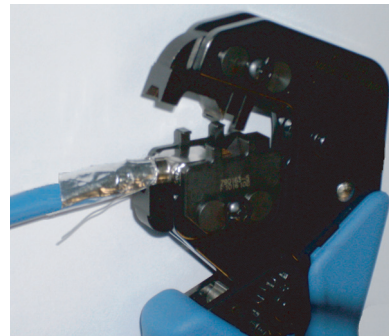


4 Terminating the Connector

To terminate the connector, proceed as follows:

1. Using the DM-8G-CRIMP tool, do the following:

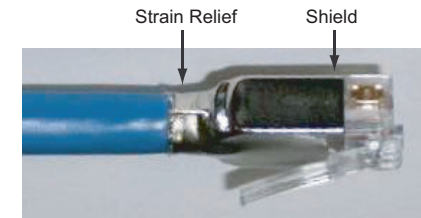
- Close the tool handles until the ratchet releases, and then allow the handles to open fully.
- With the tab of the housing facing downward, insert the modular plug (including shield and cable) into the crimping chamber.



c. While holding the assembly, carefully close the tool handles until the ratchet releases, and then allow the handles to open fully.

NOTE: The tool terminates three areas of the modular plug. For proper alignment, be sure to apply forward pressure on the cable while closing the tool handles.

- Remove the modular plug from the tool.
- Trim away excess drain wire, foil shield, and wire braid that extend beyond the end of the plug shield.
- Verify the following:
 - The plug shield is free of bulges and tears.
 - The strain relief end of the plug shield is held firmly in place on the cable. The shield end of the plug shield is against the raised edge of the housing.



2. Slide the boot over the crimped connector.



5 Testing the Cable

Using a shielded twisted pair (STP) cable tester such as the IDEAL® LinkMaster™ tester, test the cable to ensure that it is terminated properly.