

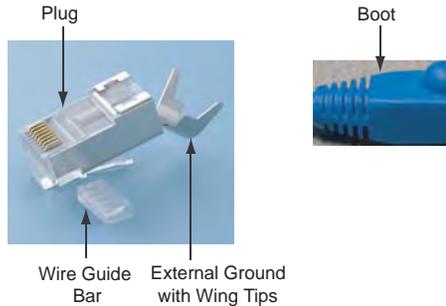
# DM-8G-CONN-WG-100 and DM-8G-CRIMP-WG

DigitalMedia 8G™ Wire Guide Connectors and Crimper

## 1 Introduction

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

- DM-8G-CONN-WG-100 contains 100 RJ-45 shielded DM-8G-CONN-WG connectors. As shown in the illustration below, a DM-8G-CONN-WG connector consists of a modular plug, integrated external ground, and a wire guide bar. A boot provides a protective covering and strain relief for the connector.



- DM-8G-CRIMP-WG is a tool that allows hand crimping of the DM-8G-CONN-WG connector for proper cable termination.

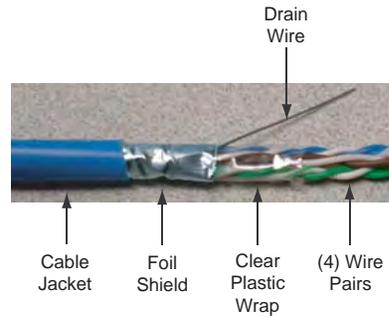


Additional items (not supplied) required for termination of the DM-CBL-8G cable are the following:

- 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:

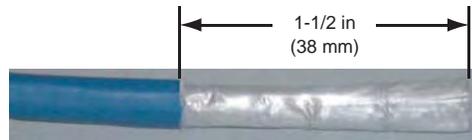


**CAUTION:** Do not nick the insulation of the wires or the foil shield of the cable.

- Slide the boot over the end of the cable.



- Strip the cable jacket 1-1/2 inches (38 mm) from the end of the cable.



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



- Fold back the drain wire over the foil shield.



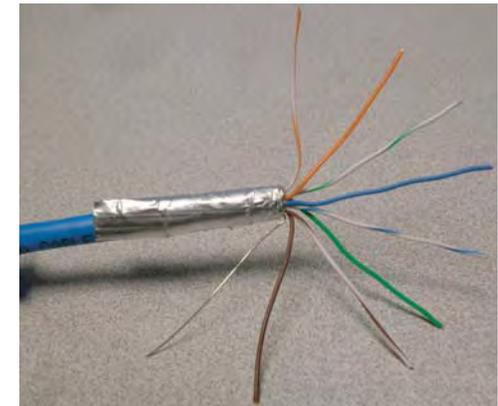
- Cut and remove the clear plastic wrap.



## 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 the wires.



*(Continued on following page)*

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

DigitalMedia 8G™ Wire Guide Connectors and Crimper

## 3 Positioning the Cable (Continued)

3. Arrange the wires 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        |

4. Slide on the wire guide bar until it is about 3/16 inch (5 mm) from the end of the foil shield.



5. Trim all wires about 1/16 inch (2 mm) from the front edge of the wire guide bar.



6. Insert the cable into the connector as follows:

- a. Carefully insert the wires into the back end of the connector while ensuring that the drain wire is positioned within the external ground.



- b. Push the wires forward until they are seated flush against the front end of the connector.



- c. Push the external ground upward toward the cable and push in the wing tips.



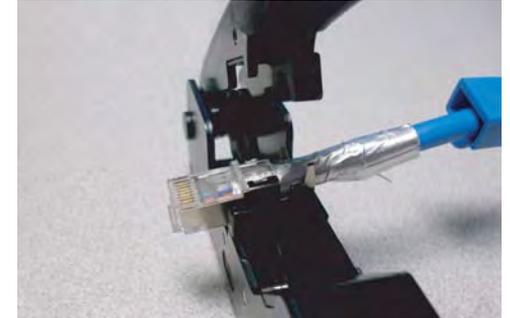
## 4 Terminating the Cable

Using the DM-8G-CRIMP-WG tool, terminate the cable as follows:

1. Crimp the connector by placing it into the the 8P slot and then pressing the handle.



2. Crimp the external ground by placing the cable in the external ground crimping cavity and then pressing the handle.



3. Trim away the excess drain wire and foil shield that extend beyond the end of the external ground.



4. Slide the boot over the crimped connector.



## 5 Testing the Cable

Test the cable to ensure that it is terminated properly. For detailed information, refer to the DigitalMedia Cable Plant Certification Reference Guide (Doc. 4565) at [www.crestron.com/dmresources](http://www.crestron.com/dmresources).

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