

## CORRECT WIRE TERMINATION USING CAT-5 QUICK CONNECTORS

The M&S dmc1 Music/Communication System uses plug-in Cat-5 Insulation Displacement Connectors "Quick Connectors" for interconnection between the Master unit and the Room Stations.

These connectors are designed to terminate the four color-coded twisted pairs of standard Cat-5 cable. The connector can **only** terminate solid copper strands of Cat-5 wire that range from **22 gauge to 24 gauge**.

To ensure good electrical and mechanical connections, and to avoid service call-backs, refer to the following steps and the associated figures when terminating wires using the Cat-5 Quick Connectors.

**STEP 1** Strip back the outer insulation jacket of the Cat-5 cable 2 inches to expose the four color-coded twisted wire pairs inside. See Figure 1.

**STEP 2 DO NOT STRIP THE INDIVIDUAL TWISTED PAIRS OF WIRE.** The connector has internal sharp edge insulation displacement wire guides that cut through the insulation on the copper wires when the connector's wire latches are snapped closed.

**STEP 3** Open the four clear plastic wire latches on the connector. See Figure 2.

**STEP 4** Observing the color code label on the connector, insert a wire pair (solid color and the same color with a white stripe) completely into the two wire holes in the clear plastic wire latch for that pair color. See Figure 3. **BE SURE THE WIRES ARE COMPLETELY INSERTED.**

**STEP 5** Hold the wires completely inserted while pressing down firmly on the clear plastic wire latch. The latch will click twice as the wires are being seated into the internal insulation displacement wire guides. See Figure 4. **VERIFY THAT THE TAB ON THE CONNECTOR BODY IS INSIDE THE TAB SLOT ON THE CLEAR PLASTIC WIRE LATCH.**

**STEP 6** Repeat Step 5 for the other three wire pairs.

**STEP 7** Check each wire's connection by gently pulling on the wire. With a good connection, the wire will not pull out of the connector.

**NOTE:** *If the connector is re-opened, and any wire is removed from the connector, cut the cable back and start over from Step 1.*

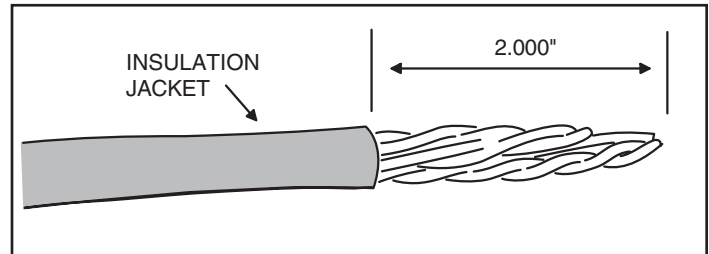


Figure 1. Strip Back the Cable Jacket

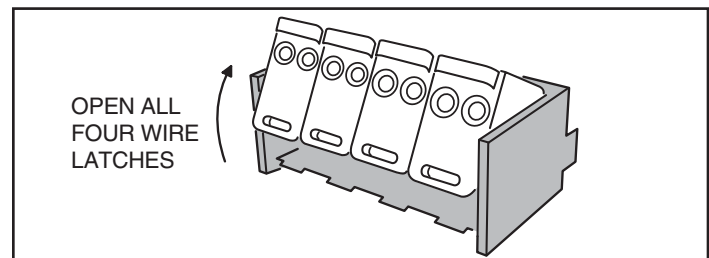


Figure 2. Open the Connector Wire Latches

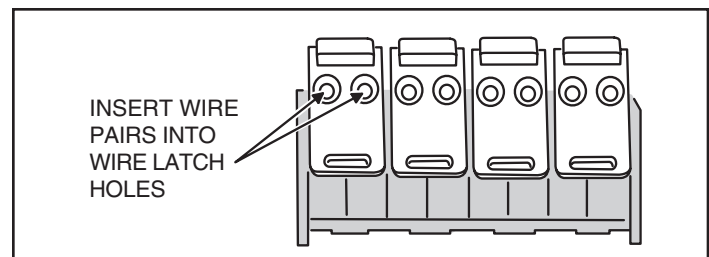


Figure 3. Fully Insert the Wire Pairs

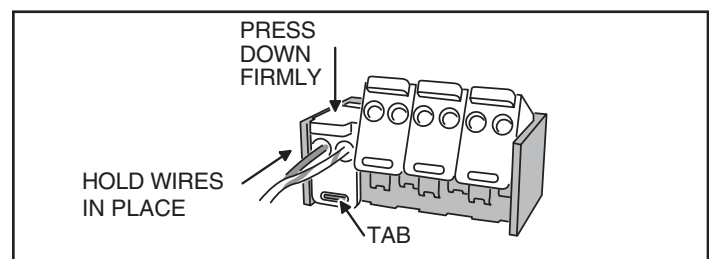


Figure 4. Press the Wire Latches Closed

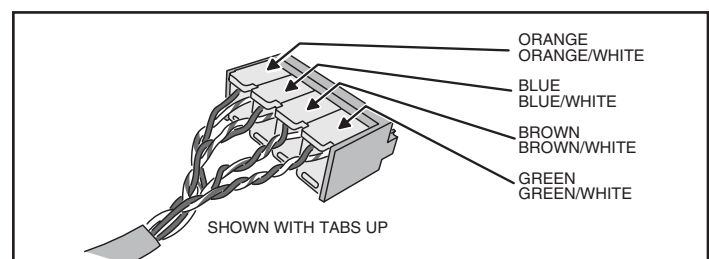


Figure 5. Completed Connector Assembly