

COUPLER KIT

FOR STANDARD 4- AND
6-CONDUCTOR CABLES

The Coupler Kit is used to connect standard extension cables to standard sensor cables. It includes both a 6-pin cable coupler and waterproof crimp-style splice connectors for making the connection as well as a protective shell in which you may place the connection point.

COMPONENTS

The Coupler Kit includes the following components. Please make sure you have all listed components before continuing.

- ◆ Protective Shell (in two pieces)
- ◆ 6-Pin Cable Coupler
- ◆ Four #4 x $\frac{1}{2}$ " (12.5 mm) Screws
- ◆ Seven Splice Connectors
- ◆ One Cable Tie

TOOLS AND MATERIALS NEEDED

You may need some of the following tools and materials in order to complete your installation. Please be sure you have everything you need before beginning.

- ◆ Small Screwdriver
- ◆ Pliers
- ◆ Telephone Wire Stripper or Knife
- ◆ Hose Clamps or Conduit Clamps
- ◆ Cable Clips or Weather-Resistant Cable Ties

TIPS ON MAKING CONNECTIONS

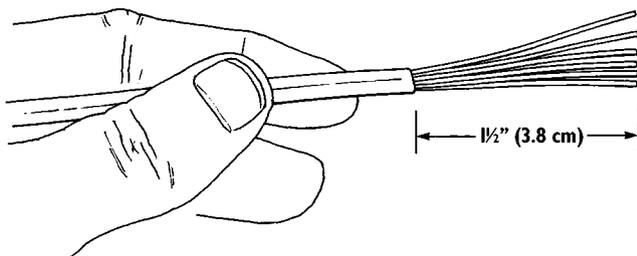
For the best connection, note the following suggestions:

- ◆ If the connection between the cables will be located outside, we recommend that you use the splice connectors rather than the coupler.
With the splice connectors, there is less chance of the cables separating and also less chance of water reaching the connection. Use the cable coupler only if the connection is located inside, protected from the effects of weather and other stresses.
- ◆ Try to place the connection between cables inside a building, underneath an eave, or in another location similarly shielded from rain.
- ◆ The protective shell must be well secured to avoid wind buffeting.
Use hose clamps for poles or conduit clamps for surface mount.
- ◆ When securing cables, place a cable clip or tie on each side of the protective shell so the movement of the cables does not cause the connection to pull apart.
- ◆ It is a good practice to leave an extra length of cable near the connection point in case future adjustments or repairs are necessary.

TO CONNECT THE CABLES USING THE SPLICE CONNECTORS

1. Cut the modular connector off the end of the cable.
2. Use a telephone wire stripper or a knife to strip away about 1½ (3.8 cm) inches of the black shielding on the cable.

Do not strip away any of the colored shielding on the individual wires.
Repeat this procedure for the end of each cable you are connecting.



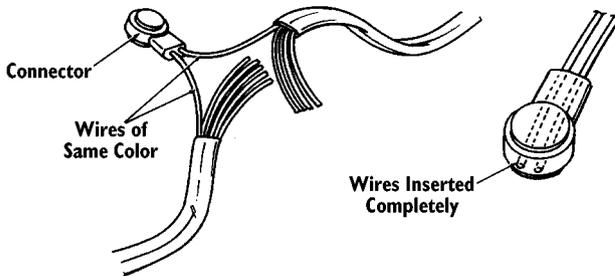
STRIP SHIELDING

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3. Take a wire from one of the cables and place it in one of the holes at the end of a splice connector.

Make sure you push the wire all the way in. You can check this by looking through the clear side of the splice connector.

4. Take the same colored wire from the other cable and place it in the other hole at the end of the splice connector you used in step 2.

Make sure you push the wire all the way in. You can check this by looking through the clear side of the splice connector.



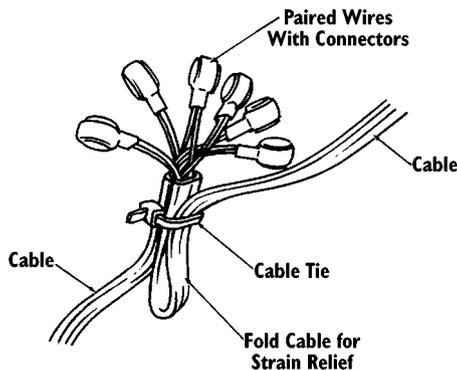
CONNECTING WIRES USING SPlice CONNECTOR

5. Use pliers to snap the yellow cap into place, securing the wires.

6. Repeat this procedure for each set of colored wires.

7. Use a cable tie to secure the two cables together as shown below.

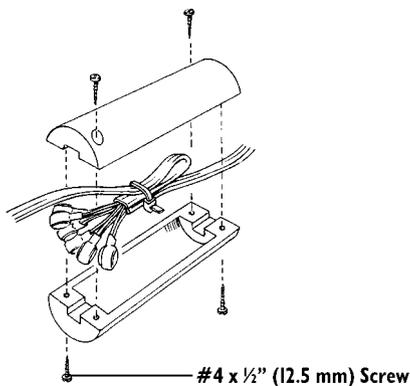
Doing this provides a measure of strain relief which should prevent the wires from pulling apart under normal conditions. Cut off the excess cable tie when it is secure.



PROVIDING STRAIN RELIEF

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8. Gather the wires and splice connectors neatly together and enclose the in the two halves of the protective shell as shown below.

Use the #4 x 1/2" (12.5 mm) screws to join the two halves.



ENCLOSE CONNECTION IN PROTECTIVE SHELL

TO CONNECT THE CABLES USING THE COUPLER

1. Place the cable plug at the end of one of the cables into one end of the coupler.
2. Place the cable plug at the end of the other cable into the other end of the coupler.
3. Enclose the connection in the two halves of the protective shell.

Use the #4 x 1/2" (12.5 mm) screws to join the two halves.

Product Numbers: 7957

Davis Instruments Part Number: 7395-010
Coupler Kit for Standard 4- and 6-Conductor Cables
Rev. C Manual (7/8/99)

This product complies with the essential protection requirements of the EC EMC Directive 89/336/EC.

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