DSK-1 Splice Kit

Used to Splice Two Cables Together

Item	Description	Quantity
A	Outer Heat Shrink Tube	1
B	3/4” x 3” Shrink Tube	1
C	Mastic Tape 2 Packs	2
D	Heat Shrink Butt Connectors	2
E	Ground Crimp Sleeve	2
F	End Seal	1

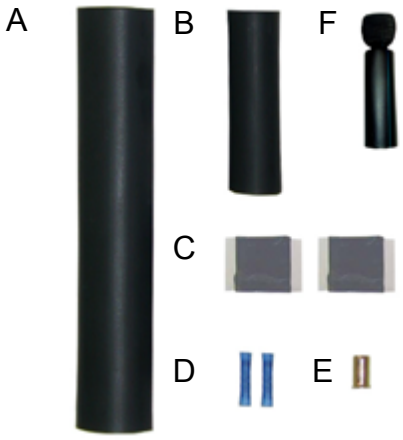


Figure 1

Removing the Outer Jacket

1. 6” from the cable end, score the circumference of the cable outer jacket. Then score the outer jacket from the previous score toward the cable end. (FIG 1)

2. Flex the score points and remove the outer jacket, exposing the inner braid. (FIG 2)

Figure 2

3. Push the braid back toward the over jacket, creating a bulge in the braid.

Figure 3

4. Use a small screwdriver to create an opening in the braid near the original score point. (FIG 3)

5. Bend the heater cable over on itself creating an elbow.

6. Keeping the braid pushed towards the elbow, push the cable upward through the braid opening. After the cable is pushed through the braid, pull the braid tight. This will be the heater ground wire. (FIG 4)

Figure 4

Removing the INNER Jacket

7. Approximately 1/2” to 1” above the braid, score the circumference of the inner jacket. Then score the inner jacket from the previous score toward the cable end. Do not cut into the heater core. (FIG 5)

8. Remove inner jacket.

9. Once heater core is exposed. Cut a “V” Notch. (FIG 6)

10. Using needle nose pliers, grab each bus wire at the V notch and using a twisting motion, pull the bus wire and the outer edge of heater material out away from the heater core material. Expose each wire down to the intact inner jacket. (FIG 7) NOTE: If the bus wires are hard to pull out use a blade to remove the black core from the side of the bus wires.

11. Once bus wires are exposed. Remove excess heater core material.

12. Repeat for other heat cable or other wire type.

Installing the Heat Shrink Tubes

13. On the remaining cable, thread the large heat shrink tube over the cable. Thread the ground heat shrink tube onto the heater cable. (FIG 8)

Wire Connections

14. Prepare the heater cable bus wires and/or power cord heater bus wires for insertion into the furnished butt splice connectors. The un-insulated portion of the bus wires should be long enough to insert firmly into the metal portion of the butt connector and still allow the wire insulation to slide into the plastic jacket on the connector. Do not leave exposed conductors outside the splice jacket. Crimp the splice ensuring the wires are held securely. (FIG 9 & 10)

Figure 5

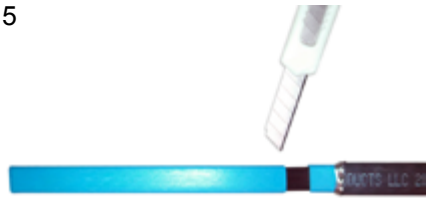


Figure 6

Figure 7

Figure 8

Figure 9

Figure 10

Wire Connections

15. Using the mastic tapes provided “diaper” the cable ends between the butt splices. (FIG 11)

16. Slide the 3/4” X 3” shrink tube onto the spliced conductors area, pulling the ground wires out and back from the tube. Position the shrink tube over the spliced wires ensuring the ground wires are on the outside of the tube. Using a torch heat and shrink the tube over the spliced area until adhesives runs from each end. (FIG 12)

17. Place the ground wire and heater braid in the un-insulated barrel connector and crimp them together tightly. Trim off excess heater braid or cord bus wire. (FIG 13)

18. Slide the 1.1” X 8” heat shrink tube over the entire spliced assembly area, including the ground wires. Heat the shrink tube along its entire length until adhesive runs from each end. (FIG 14)

DO NOT ALLOW COMPLETED ASSEMBLY TO REST IN WATER.

Figure 11

Figure 12

Figure 13

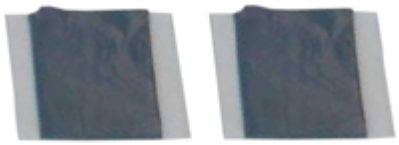
Figure 14

End Seal for Self-Regulating Cable

Item	Description	Quantity
A	End Seal	1
B	Mastic Tape 2 Packs	2

A

B



Removing the Outer Jacket

1. 2” from the cable end, score the circumference of the cable outer jacket. Then score the outer jacket from the previous score toward the cable end. (FIG 1)
2. Flex the score points and remove the outer jacket, exposing the inner braid.
3. Trim off all braided ground wires back to the outer jacket. (FIG 2)
4. Cut a “V” notch in the cable end. (FIG 3)
5. Using the mastic piece stretch and wrap the cable end. (FIG 4)
6. Slide the shrink end cap over the cable end covering the mastic wrap.
7. Heat until completely shrunk, and adhesive escapes the end cap. (FIG 5)

Figure 1

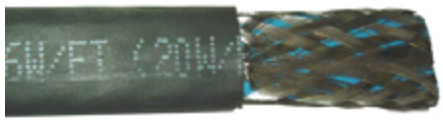


Figure 2

Figure 3

Figure 4

Figure 5