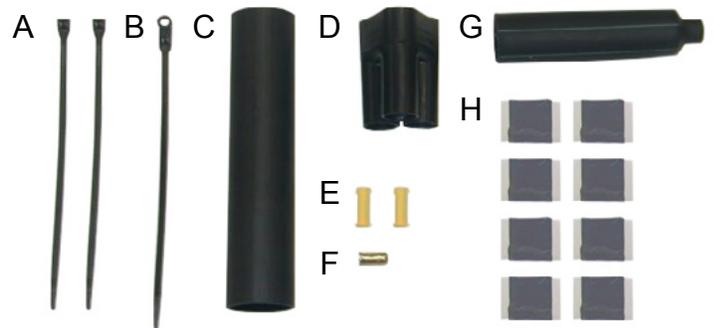


DTEK-3

Tee Kit with 3 Leg Boot - Used to splice a 3rd Heat Cable connection

Item	Description	Quantity
A	Cable Ties 7 1/2" Square	2
B	Cable Ties Nail Type 7 3/4"	1
C	1.1" X 8" Outer Tube	1
D	3 Leg Boot	1
E	Yellow Heat Shrink Connectors	2
F	Ground Crimp Sleeve	1
G	End Seal	1
H	Mastic Tape	8



Removing the Outer Jacket

- 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)
- Flex the score points and remove the outer jacket, exposing the inner braid. (FIG 2)
- Push the braid back toward the over jacket, creating a bulge in the braid.
- Use a small screwdriver to create an opening in the braid near the original score point. (FIG 3)
- Bend the heater cable over on itself creating an elbow.
- 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 1



Figure 2



Figure 3



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 remaining two cable ends.

Installing the Heat Shrink Tubes and Boot

13. After all the cables are stripped, thread the cables through the 3 leg boot, one per leg. Next push the 1.1" X 8" shrink tube over the cables up toward the breakout boot. Push up and out of the way. (FIG 8)
14. Align the cables and trim the bus wires evenly. (FIG 9)

Wire Connections

15. Remove the release paper from a mastic strip, wrap around the cable approximately 2" from cable jacket end. (Fig 10)

Figure 5



Figure 6



Figure 7



Figure 8



Figure 9



Figure 10



16. Wrap a second mastic strip around the cable end where the bus wires exit. Repeat on all three cables. Stack all three cables on top of each other. (FIG 11)
17. Press all three ground wires through the un-insulated crimp and crimp them. Trim off excess ground braid. Wrap the two standard cable ties around the cables below the mastic. Trim excess ground braid length. (Fig 12)
18. Twist three bus wires together on each side of the cable bundle. (FIG 13)
19. Now place the insulated connectors over each bus wire bundle and crimp. Once the butt splices are crimped, they need to be heat shrunk. (FIG 14)
20. Using a piece of mastic tape, “diaper” the bus wire butt connectors (FIG 15)
21. Slide end cap over cable end assembly and heat shrink down tightly. (FIG 16)

Figure 11



Figure 12



Figure 13



Figure 14



Figure 15



Figure 16



22. Then pull the 8" long shrink tube down and over the end cap and heat shrink down tightly. (FIG 17)

23. Slide the breakout boot over the 8" shrink tube and heat shrink down tightly. (FIG 18)

24. Use the tie wrap with the nail hole to suspend the completed assembly at the top of the gutter. (FIG 19)

DO NOT ALLOW COMPLETED ASSEMBLY TO REST IN WATER.

Figure 17



Figure 18



Figure 19



End Seal for Self-Regulating Cable

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



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

