



Power Connection Kit (Cable to Box)

INSTRUCTION MANUAL

Components

Sealing Set – Cable

1 crimp tube	Type 12/3	Length = 2-1/2"
1 crimp tube	Type 12/3	Length = 1"
1 crimp tube	Type KYNAR 3/4	Length = 4"
1 piece of adhesive tape		Length = 4"
1 piece of assembly wire		

Fitting Set – Box

1 crimp tube	Type 12/3	Length = 3/4"
2 crimp tubes	Type 3/1	Length = 2-3/4"
1 chloropren rubber	Type pg 16	

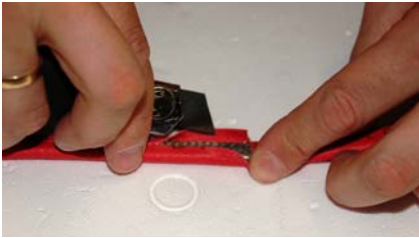
Notes:

It is essential to follow the instructions in this manual carefully, in order to ensure that all the correct connections are made properly, thereby preventing the cable from malfunctioning.

A temperature of approximately 300°F ($\pm 50^\circ\text{F}$) is necessary to shrink the crimp tubes. A hot air gun with a temperature regulator is recommended for that procedure. However, a gas lighter, or a blow torch with a moderate flame may also be used.

Preparation of the Heating Cable for Cable-to-Box Connection

1. Pull the PG screw joint (not provided) over the cable.



2. From the end of the cable, remove 3.5" of the outer sheath.

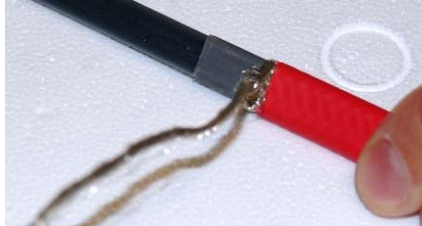
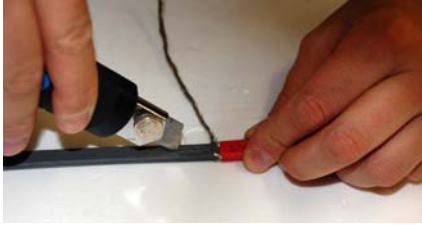


3. Gently separate the braid with a screwdriver.



4. Twist the wires of the braid together and position them to one side of the heating cable, as shown in the picture.

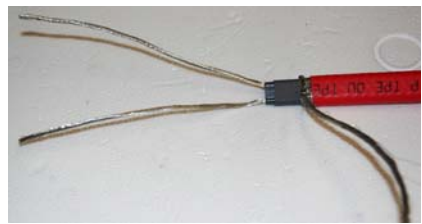




5. Carefully cut away at least 3" of the conductor insulation sheath using a utility knife.



6. Using side-cutting pliers, carefully cut the material between the two conductors while ensuring that no damage occurs to the conductors.



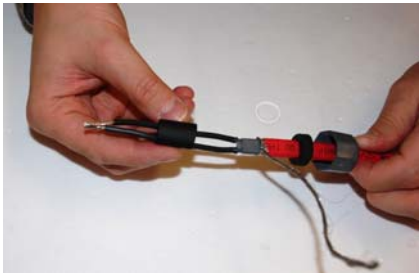
7. Pull the conductors to the side and cut away the material between the two conductors so that it is flush with the conductor insulation sheath.



8. Slide a 2-3/4" crimp tube onto each conductor.



9. Shrink the tubes by moving the hot air gun from side to side continuously over the area.



10. Slide the $\frac{3}{4}$ " crimp tube over the conductors so that $\frac{1}{2}$ " of it lies on the conductor insulation sheath.


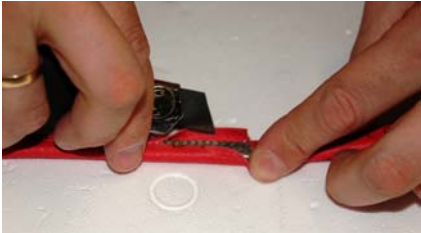







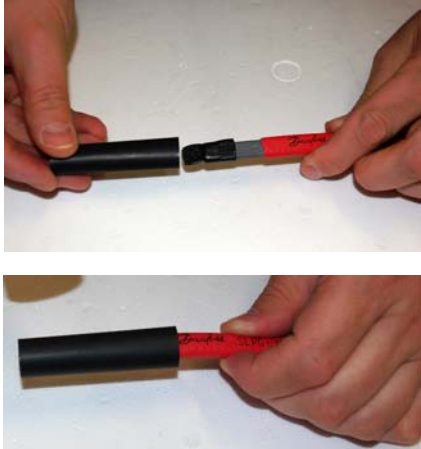



11. Crimp the tube and immediately pinch the area between the wires with flat bit pliers (as shown in the picture) until the adhesive is visible.



12. The heating cable can now be connected directly to the terminal box.

Sealing the End of the Heating Cable

	<p>1. Cut the cable to the desired length.</p>
 	<p>2. From the end of the cable, remove 2-3 inches of the outer sheath.</p>
 	<p>3. Remove the braid and clip away 1" of the cable.</p>
	<p>4. Place most of the 1" crimp tube over the end of the cable.</p>

	<p>5. Crimp the tube down and flatten the end with flat bit pliers until the adhesive is visible.</p>
	<p>6. Place most of the 2.5" crimp tube over the cable, while keeping 0.5" of the crimp tube hanging over the end of the cable.</p>
	<p>7. Crimp the tube down and flatten the end with flat bit pliers until the adhesive is visible.</p>
	<p>8. Place most of the 4" type KYNAR 3/4 crimp tube over the end of the cable.</p>
	<p>9. Crimp the tube down and flatten the end with flat bit pliers until the adhesive is visible.</p>