

# DE-ICERMAN

## Splice Connection Kit

DSK

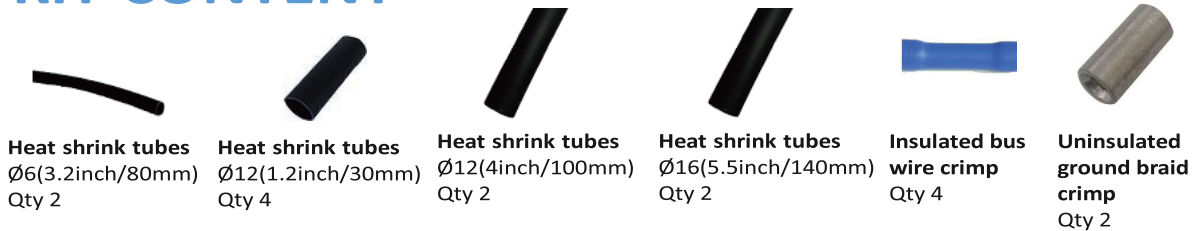
User Manual

The DSK Connection Kit is for use with all versions of DSR-PFP & DSR-RGS heating cables together in a splice configuration.

## TOOLS REQUIRED



## KIT CONTENT



Component approvals and performance are specifically tied to the use of De-Icerman specified parts. Do not substitute any parts.

### ATTENTION:

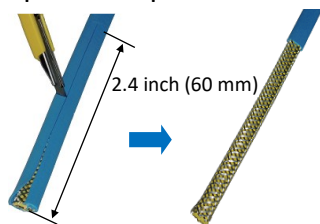
- The maximum permissible steady state Current is 30A.
- The rated voltage is 240V.
- The maximum continuous exposure temperature is 85°C.
- Temperature at the point of connection to branch circuit conductors may exceed 60 °C.

**Warning:** All heating cables shall have metal screen for working with branch circuit ground-fault protection to minimize the danger of fire if the heating cable is damaged or improperly installed.

### STEP

# 1

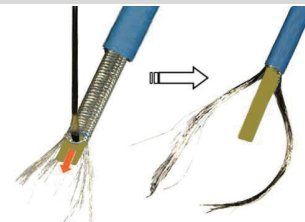
For heating cable without outer jacket, skip Step 1, and proceed to step 2.



- Slightly cut the outer jacket of the cable 2.4 inch (60mm) from the top of cable.
- Remove the outer jacket from heating cable.

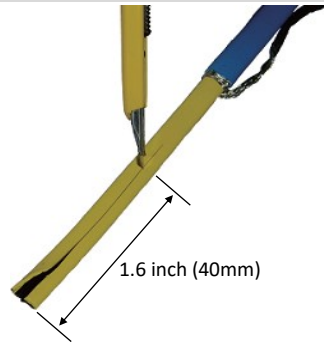
### STEP

# 2



- Unbraid the braid with a screw driver or any tapered tool from the top of cable. Do not break the braiding wires.
- Disperse the braiding wires to two strands. Align and twist the two strands of braiding wires.

### STEP 3



- Straighten and twist the two strands into one.
- Slightly cut the inner insulation of the cable 1.6 inch(40mm) from the top of cable.
- Remove inner insulation from heating cable.

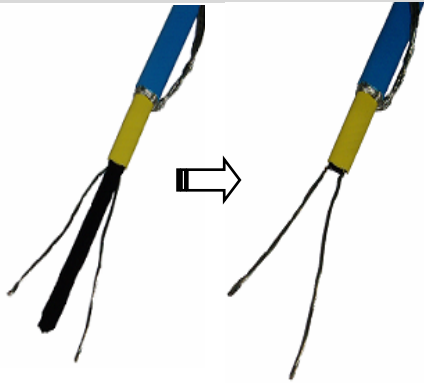
### STEP 4



- Shave the core material (Black) from the outside of each bus wire.

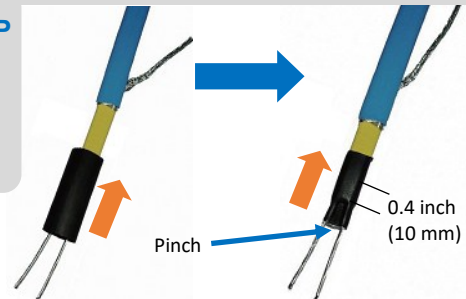
**Warning: Do not damage the bus wires.**

### STEP 5



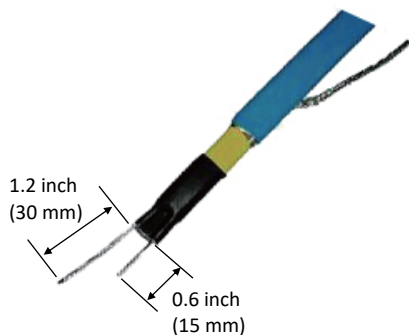
- Peel back bus wires from the core material, and remove the remaining core material.

### STEP 6



- Slide  $\varnothing 12$ (1.2inch/30mm) shrinkable tube into place as shown.
- Heat the shrinkable tube with heat source until the glue comes out from both ends.
- Pinch the tube between two wires and hold for at least 10 seconds with pliers.
- Repeat step1 through step 6 for other heating cables.

### STEP 7



- Before splice (or tee) connecting, cut off 0.6 in(15 mm) from one of the bus wires of all cables

**Warning: Bus wires will be shorted if they contact each other. Keep bus wires separated.**

### STEP 8



- Slide a  $\varnothing 12$  (5.5inch/100mm) heat shrink tube onto one of heating cables.
- Slide  $\varnothing 16$ (4inch/140mm) heat shrink tube over another heating cable
- Place grounding braids of all heating cables on the same side.

## STEP 9



- Insert both conductors into an insulated crimp terminal and clamp each set of bus wires as shown.

Crimp Tools Recommended:  
**Model: KST2000G**  
(Crimper size use : 2mm<sup>2</sup>)(K.S.T Terminals Inc.)



## STEP 10



- Slide the Ø12 (4inch/100mm) heat shrink tube over the bus wire connection area.
- Heat the shrinkable tubes with heat source by moving continuously from side to side until the glue comes out from both ends.

**Warning: Bus wires will be shorted if they contact each other. Keep bus wires separated.**

## STEP 11



- Insert all grounding braids into the Ø6 (3.2inch/80mm) heat shrink tube
- Connect the braids from both sides with an uninsulated ground braid crimp.

Crimp Tools Recommend:  
**Model: IZUMI 5N18**  
(Crimper size use : 3.5mm<sup>2</sup>)(IZUMI Products Company)



## STEP 12



- Move Ø6 (3.2inch/80mm) heat shrink tube until it covers the uninsulated crimp.
- Heat the shrinkable tubes with heat source by moving continuously from side to side until the glue comes out from both ends.

## STEP 13



- Slide the Ø16 (5.5inch/140mm) heat shrink tube over the bus wire connect section.
- Heat the shrinkable tube with heat source until the glue comes out from both ends.

## STEP 14



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