DE-ICERMAN

Splice/Tee Connecction Kit

DSTK

User Manual

The DSTK Connection Kit is for use with all versions of DSR-PFP & DSR-RGS heating cables for connecting cables together in a splice or Tee configuration. The kit contains materials for two splice (or tee) connection.



TOOLS REQUIRED



KIT CONTENT



Heat shrink tubes
Ø6
(3.2inch/80mm)
Qty 2



Heat shrink tubes
Ø12
(1.2inch/30mm)
Qty 6



Heat shrink tubes
Ø19
(5.5inch/140mm)
Qty 2



Heat shrink tubes
Ø16
(4inch/100mm)
Qty 2



Insulated bus wire crimp

Qty 4



Uninsulated ground braid crimp
Qty 4

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

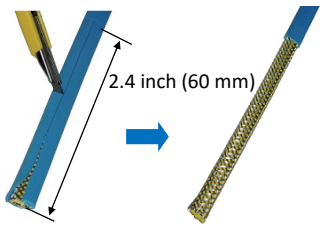
ATTENTION:

- **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.

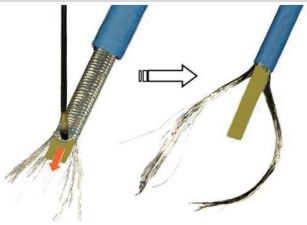
STEP 1

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



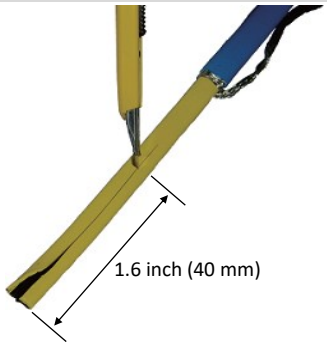
- Slightly cut the outer jacket of the cable 2.4 inch (60mm) from the top of cable.
- Remove the outer jacket from heating cable.

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.

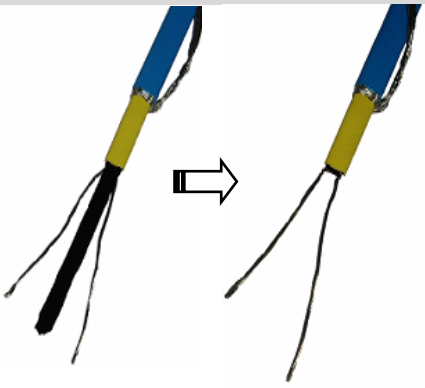
STEP 4



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

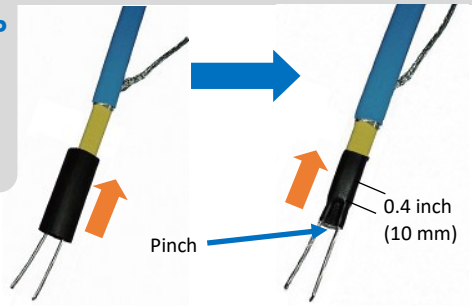
Warning: Do not damage the bus wires.

STEP 5



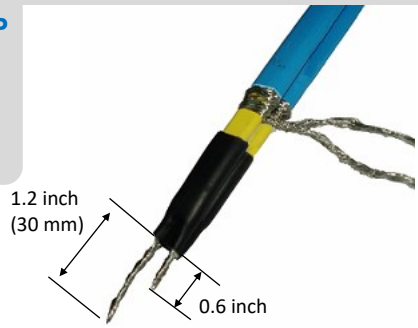
- Peel back bus wires from the core material, and remove the remaining core material.

STEP 6



- Slide Ø12(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.

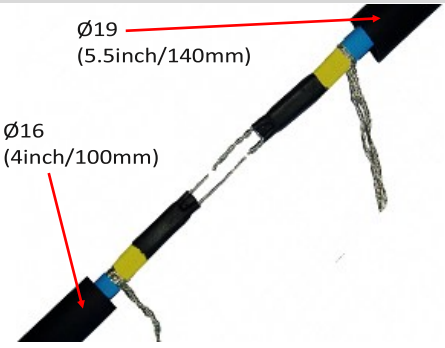
STEP 7



- For Tee connection, two of the heating cables need to be stacked together first.
  ▶ Skip this step, if you have only two cables for splice connection
- 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 Ø16(4inch/100mm) heat shrink tube from the single heating cable side.
- Slide Ø19(5.5inch/140mm) heat shrink tube from the two heating cables side or 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 : 2mm²)(K.S.T Terminals Inc.)



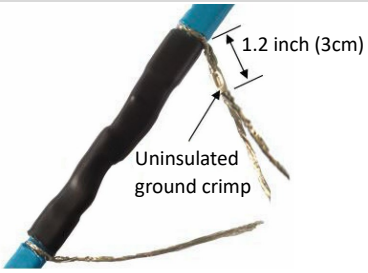
STEP 10



- Slide the Ø16 (4inch/100mm) heat shrink tube over the connection section.
- Heat the shrinkable tubes with heat source by moving continuously from side to side.

Warning: Shrinkable tube must wrap around only the insulation section, never cover any part of the Grounding braids.

STEP 11



- Combined the braids of the two stacked cables at 1.2inch (30mm) away from the edge of the outer jacket, sliding an uninsulated ground braid crimp onto them.
- Cut and discard the remaining braids, which is out from the uninsulated ground braid crimp.

Crimp Tools Recommend:
Model:IZUMI 5N18
(Crimper size use : 1.5~8mm²)(IZUMI Products Company)



STEP 12



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

STEP 13



- Move 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 14



- Slide the Ø19 (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.

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