DE-ICERMAN

Power/Splice Connection Kit

DPPK

User Manual

The DPPK connection kit is for use with all versions of DSR-PFP heating cables for connection to power wiring or to connect two cables together in a splice configuration.



TOOLS REQUIRED:



KIT CONTENT:



Heat shrink tubes
Ø3(3inch/75mm)
Qty2



Heat shrink tube
Ø12(2inch/50mm)
Qty1



Wire nuts
Qty 3



Conduit Locknut
Qty 1



Pipe clamps
Qty 2



Stand-off
Qty 1



Box adapter
Qty 1



U-Grommet
Qty1



Sealing ring
Qty 1



Warning label
Qty 1

Additional Material Needed

The enclosure dimensions shall not be less than 4”*4”*3”, NEMA 4X with a knockout or drill-through hole for 3/4-inch NPT threaded hub. The junction box must be UL and CSA Listed for the application type 4X



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

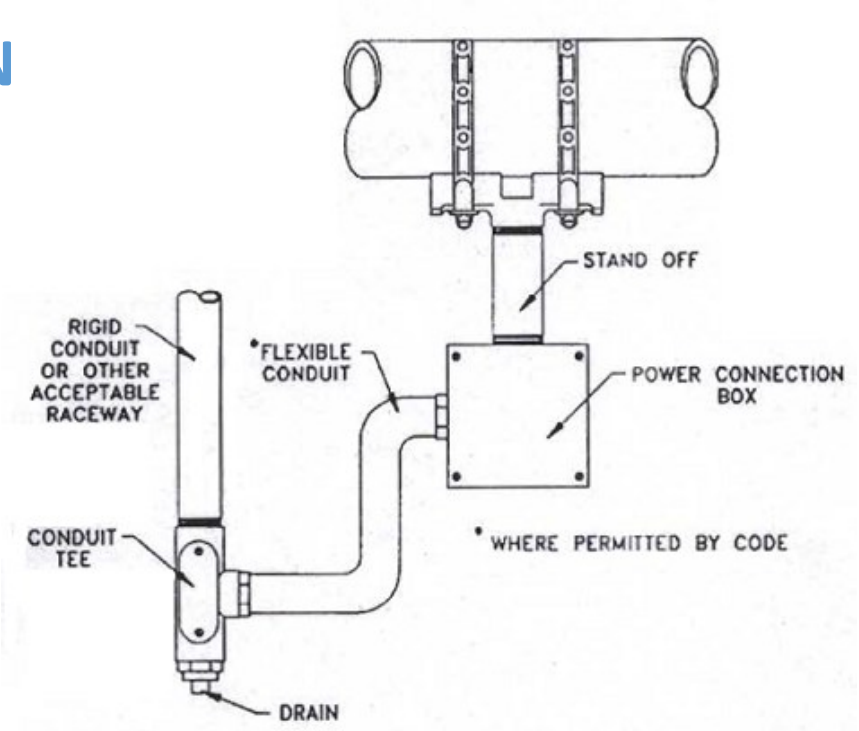
ATTENTION:

- **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.**

INSTALLATION

Positioning Stand-off

- The power connection box should be positioned at the 4 to 8 o'clock positions to minimize potential water ingress.
- A low point drain in the conduit leading to the power connection box is recommended.



STEP 1

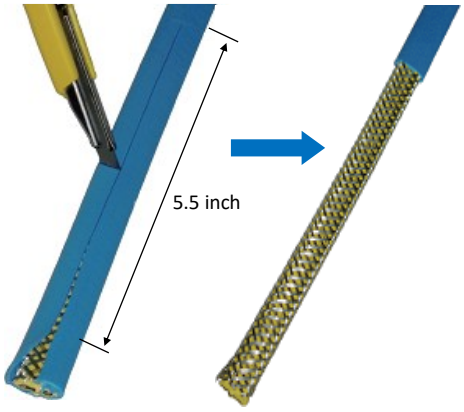


For heating cable without outer jacket, skip Step 1 and 2, and proceed to step 3.

- Slide U-grommet and stand-off onto cable

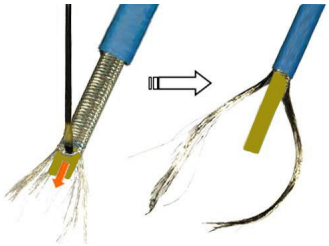
Warning: All heating cables shall have metal screen for working with branch circuit ground-fault protection to minimize the danger of fire if the heating cable is damaged or improperly installed.

STEP 2



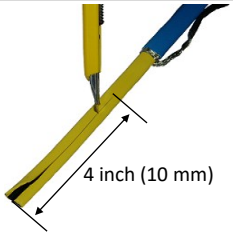
- Slightly cut the outer jacket of the cable 5.5inc (140mm) from the top of cable.
- Remove the outer jacket from heating cable.

STEP 3



- Unbraid the braid with a screwdriver 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 4



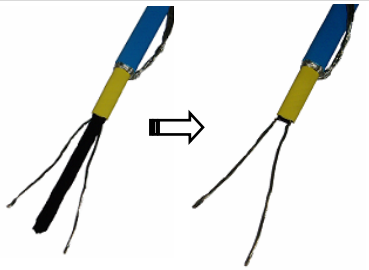
- Straighten and twist the two strands into one.
- Slightly cut the inner insulation of the cable 4inch(100mm) from the top of cable.
- Remove inner insulation from heating cable.

STEP 5



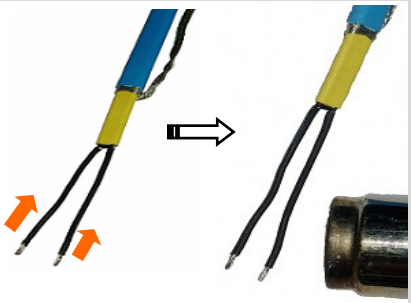
- Shave the core material(Black) from the outside of each bus wire.

STEP 6



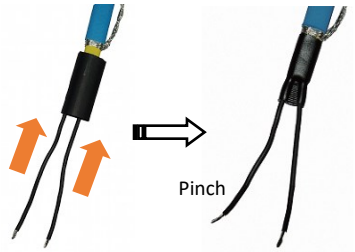
- Peel back bus wires from the core material, and remove the remaining core material.

STEP 7



- Insert two bus wires into a Ø3(3inch/75mm) heat shrink tube individually.
- Heat the shrinkable tubes with heat source by moving continuously from side to side.

STEP 8



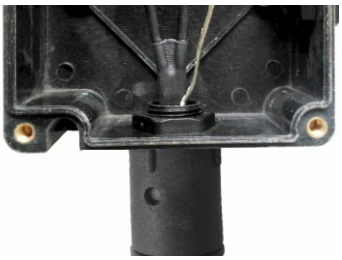
- Slide Ø12(2inch/50mm) shrinkable tube onto the place as shown.
- Heat the shrinkable tube with heat source until the glue comes out from both ends.
- Pinch the tube between two wires and hold for at least 10 seconds with pliers.

STEP 9



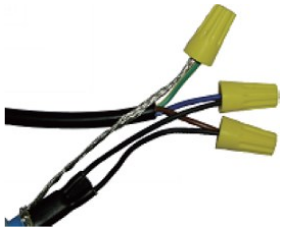
- Slide parts onto heating cable as shown

STEP 10



- Place junction box on box adapter and secure it with the conduit lock nut.

STEP 11



- Connect heating cable and power supply cable with wire nuts:
- connect the braid to the earth wire (Yellow and Green color), the two insulated bus wires to neutral and live, respectively.

STEP 12



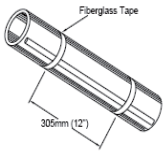
- Fasten the pipe stand-off on the pipe with two pipe

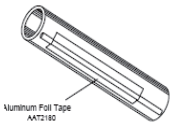
STEP 13



- Place the box cover and apply a warning label to the surface of the cover.

STEP 14





- Attach the heating cable with aluminum tape alone the traced plastic pipe or with fiber-glass tape circumferentially attach the heating cable at around 12inch(305mm) intervals on metallic pipe.

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