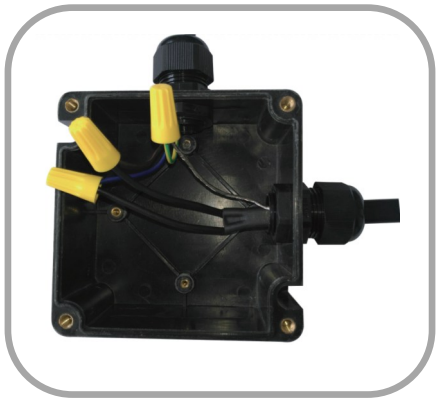
DE-ICERMAN

Power Connection Kit

DPRK

User Manual

The DPRK provides a watertight entry into a junction box. This kit includes cable seals for power and end terminations. The A-RPK kit is designed for use with AFA-RGS heating cables. The detailed operational requirements, please see the installation instructions.



TOOLS REQUIRED:



KIT CONTENT:



Heat shrink tubes
Ø3(3inch/75mm)
Qty 2



Heat shrink tube
Ø12(2inch/50mm)
Qty 1



Wire nuts
PVC Qty 3



Conduit Locknut
NPT3/4" Qty 1



Retaining Cap
NPT ¾ Qty 1



Grommet
Qty 1



Connector body
NPT ¾ Qty 1



Sealing ring
NBR Qty 1



Warning label
Qty 1

Additional Material Recommended

Junction Box, 4"*4"*3", NEMA 4X with a clearance hole for 3/4-inch conduit or 3/4-inch NPT threaded hub, The junction box must be UL and CSA Listed for the application



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.**

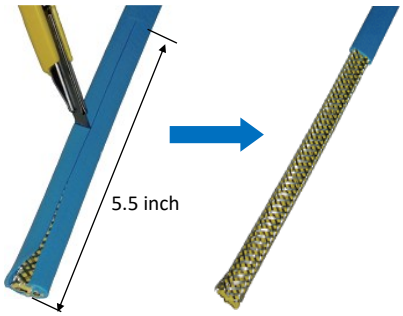
STEP 1

- Slide retaining cap and grommet onto



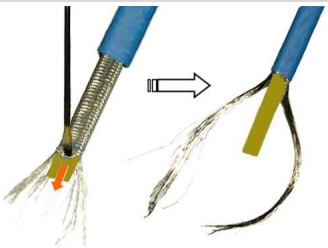
Warning:
All outdoor electric deicing and snow-melting equipment should be provided with branch circuit ground-fault equipment protection.
All heating cables shall have metal screen for working with branch circuit ground-fault protection to minimize the danger of fire if the heating cable is damaged or improperly installed.

STEP 2



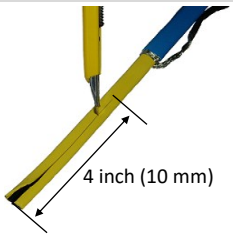
- Slightly cut the outer jacket of the cable 5.5inc (140mm) from the top of cable.
- Remove the outer jacket from heating cable.

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



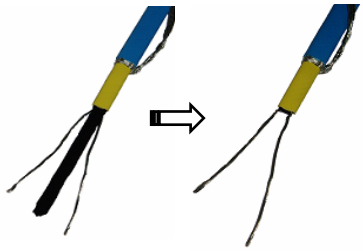
- Straighten and twist the two strands into one.
- Slightly cut the inner insulation of the cable 4inch(100mm) from the top of cable.
- Remove inner insulation from heating cable.

STEP 5



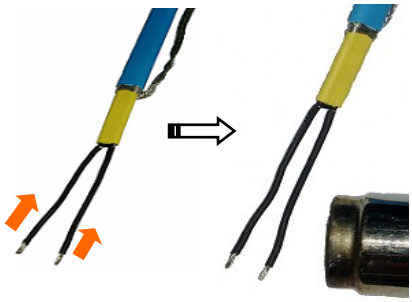
- Shave the core material (Black) from the outside of each bus wire.

STEP 6



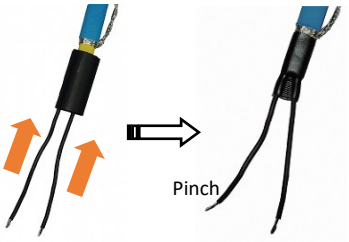
- Peel back bus wires from the core material, and remove the remaining core material.

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.

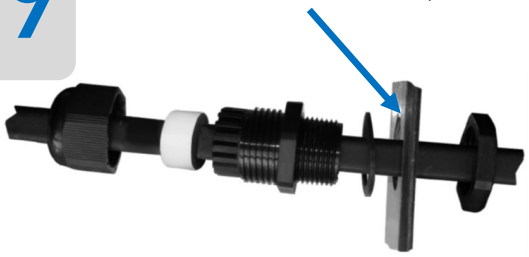
STEP 8



- 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

Enclosure (with a clearance hole for 3/4-inch conduit or 3/4-inch NPT threaded hub)



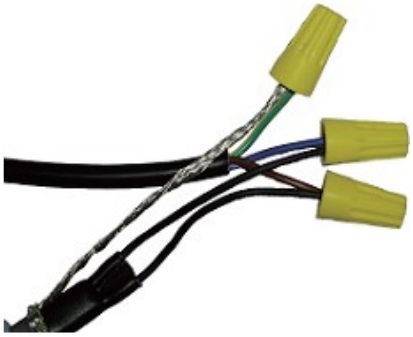
- Slide the retaining cap, retaining ring, grommet, connector body and sealing ring over the cable as shown.
- Insert the cable with the connector body into the junction box and fix it with a conduit locknut.

STEP 10



- Tighten retaining cap securely to connector body.

STEP 11



- Connect heating cable and power supply cable using wire nuts included.

STEP 12



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

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