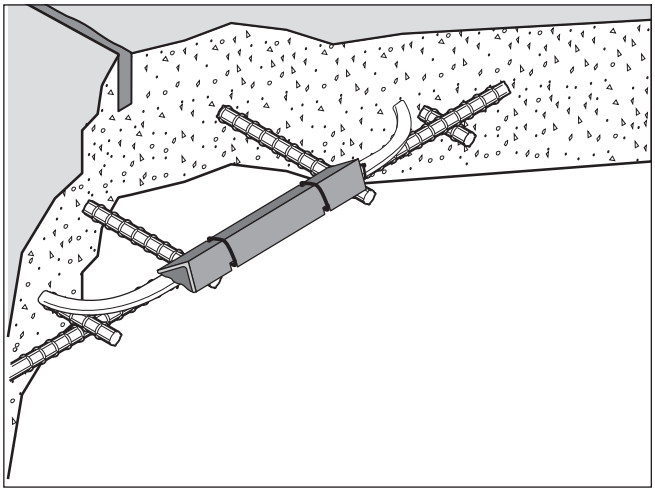
EMK-XCJ

ElectroMelt Crack Control Joint Kit Installation Instructions



DESCRIPTION

The nVent RAYCHEM EMK-XCJ Crack Control Joint Kit is for use with nVent RAYCHEM ElectroMelt EM2-XR heating cable and is used to protect heating cable at crack control joints. Materials for one crack control joint are included.

These installation instructions should be used in conjunction with the ElectroMelt System Design Guide (H53393) and ElectroMelt System Installation and Operation Manual (H58086).

For technical support call nVent at (800) 545-6258.

Note: Do not use the silicone adhesive if the date stamp has expired. Contact your nVent representative for a new kit.

APPROVALS

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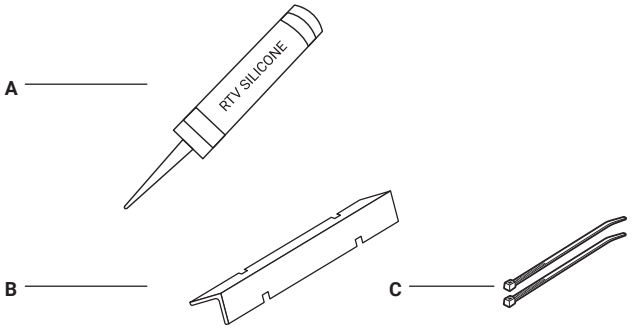
LISTED
877Z

Listed for use with EM2-XR de-icing and snow melting system

KIT CONTENTS

Item	Qty	Description
A	1	Silicone adhesive
B	1	Angle iron 1 1/2 in x 1 1/2 in x 12 in (38 mm x 38 mm x 305 mm)
C	2	Cable Ties



⚠ WARNING:

The heating cable is an electrical device that must be installed correctly to ensure proper operation and to prevent shock or fire. Read these important warnings and carefully follow all of the installation instructions.

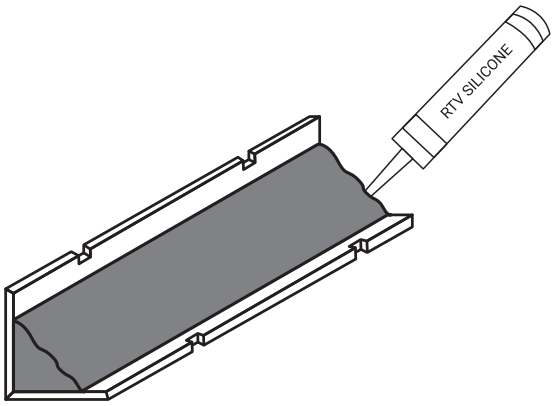
- To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with nVent, agency certifications, and national electric codes, ground-fault equipment protection must be used. Arcing may not be stopped by conventional circuit breakers.
- Component approvals and performance are based on the use of nVent specified parts only. Do not use substitute parts or vinyl electrical tape.
- The black heating-cable core is conductive and can short. It must be properly insulated and kept dry.
- Damaged bus wires can overheat or short. Do not break bus wire strands when scoring the jacket or core.
- Keep components and heating-cable ends dry before and during installation.
- Bus wires will short if they contact each other. Keep bus wires separated.
- Heat-damaged components can short. Use a heat gun or a torch with a soft, yellow, low-heat flame, not a blue focused flame. Keep the flame moving to avoid overheating, blistering, or charring the heat-shrinkable tubes. Avoid heating other components. Replace any damaged parts.
- Megohmmeters operate at high voltage. This voltage is hazardous and possibly lethal. Read and follow all instructions included with the instrument you are using.

⚠ CAUTION:

Uncured adhesive can irritate eyes. Read warnings on tube. Consult MSDS for additional information.

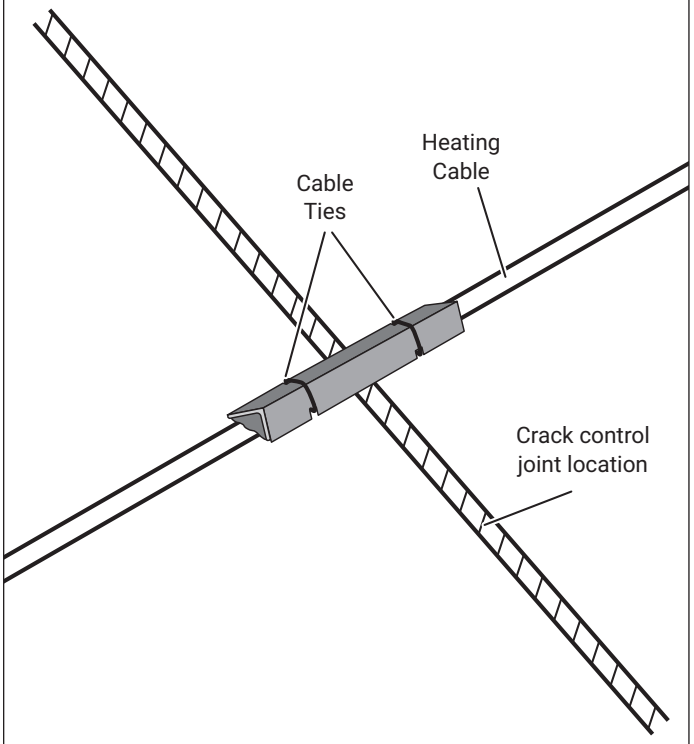
1

- Inspect angle iron for sharp edges before installation. Remove any sharp edges around inner surface of angle iron.
- Fill the angle iron with silicone adhesive.



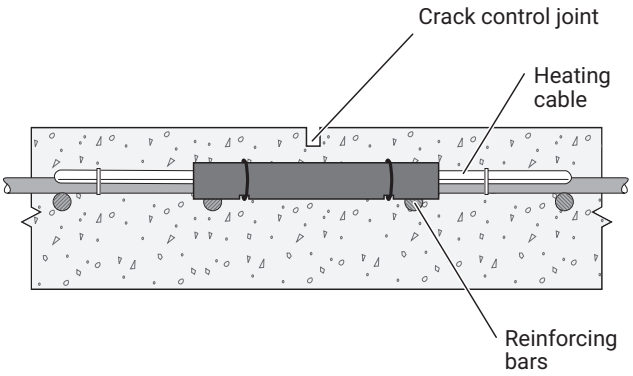
2

- At each location that a heating cable crosses a crack control joint, center and firmly press the angel iron onto the cable. Avoid creating air pockets between the heating cable, silicone adhesive and the angle iron.
- Install two cable ties around the angle iron and heating cable in the notches of the angle iron. Cut tails off of ties. Be sure angle iron remains on top of heating cable.



3

Ensure that the angle iron is centered with where the crack control joint will be made.



Note: If the crack control joint is made by cutting the cured concrete, then the operator should listen to the sound of cutting and stop immediately if the saw contacts the angle iron. Perform an insulation resistance test as described in the ElectoMelt Installation and Operation Manual (H58086) to verify that the heating cable is not damaged.

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