



## **INSTALLATION INSTRUCTIONS**

These installation instructions are for use with HTS Self-Regulating heater products: LXR, MXR & HXR Series.  
This kit may be installed in temperatures as low as -40°F (-40° C).

For technical support call HTS.

## WARNINGS

This is an electrical device and to ensure proper operation and prevent shock or fire it must be installed correctly. Read these important warnings. Follow all installation instructions.

**CAUTION:** Ground-fault equipment protection shall be provided to de-energize all normally ungrounded conductors of electrical heating cable sets, with ground heater unless applicable codes permit otherwise, and to minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed and to comply with HTS product requirements, agency certifications and national electrical codes. Conventional circuit breakers may not stop arcing. Each heating device branch circuit or each heating device shall have ground fault equipment protection.

The person(s) responsible for installation shall verify that the installation and inspection are preformed by personnel who are trained, qualified, and knowledgeable in trace heating systems when using the Division method of area classification. The installation and inspection shall be in accordance with the system manufacturers design documents, product recommendations, and installation instructions.

Metallic structures or materials such as metal pipes used to support the heater cable shall be grounded.

Component approvals and performance characteristics are based on HTS specific parts only. Maximum surface temperature: +260°C (500°F)\*.

\*Applies to HXR Series product only.

Substitution will void approvals and performance claims.

Components and heating cable ends must be kept dry before and during installation. Fire resistant thermal installation should be used. Bond the metallic braid of the self-regulating heating cable to a suitable grounding (earth) terminal. De-energize before installation or servicing.

**WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS.**

## APPROVALS



Class I, Div. 2, Groups A, B, C, D  
Class II, Div. 2, Groups F, G  
Class III

**CAUTION:** A ground fault protection device must be used with this heating device.

T-rating: Classified to rated output and conditions of use/limited pipe temperature.

## CABLE-SPECIFIC SPECIFICATIONS

HXR Series only:

5-30 W/ft., Maximum 30A. 120-277V

Maximum continuous exposure temp.

375°F/190°C.

Min. bend radius: 1.72 in. (44 mm) @ -40°F/C

LXR & MXR Series only:

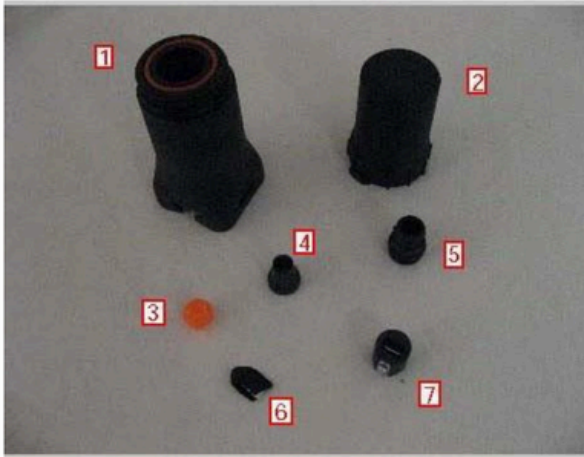
3-15 W/ft., Maximum 30A. 120-277V

Maximum continuous exposure temp.

250°F/120°C.

Min. bend radius: 1.18 in. (30 mm) @ 68°F/20°C

**KIT CONTENTS**



Item	Qty	Description
1	1	Stanchion
2	1	End Seal Cap
3	1	Silicon Grommet
4	1	Cable Guide
5	1	Connector
6	1	Boot
7	1	Strain Relief Assembly
8	1	Pipe Clamp
9	1	Cable Tie
10	1	Silicone grease

9.



**ADDITIONAL MATERIALS REQUIRED**



Knife



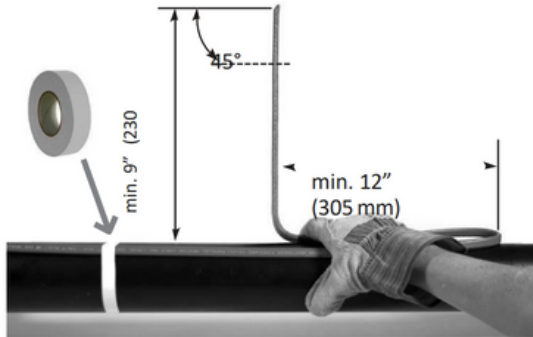
Multi Head Screw Driver



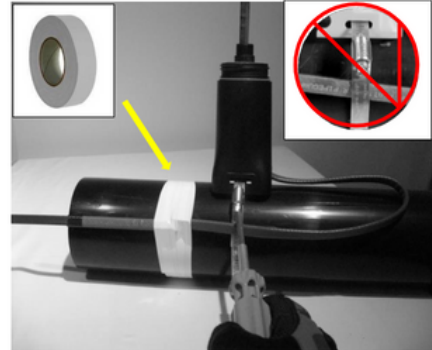
Glass Fiber Tape

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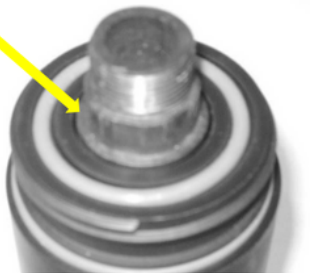
1. Cut cable at 45° angle to pierce grommet. Allow min. 9" (230 mm) for cable term. and min. 12" (305 mm) for the service loop.



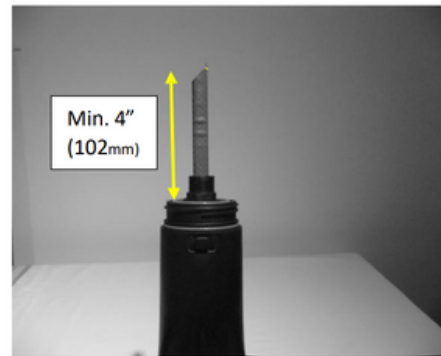
4. Attach stanchion with pipe clamps. Do not tighten clamps onto cable.



shoulder



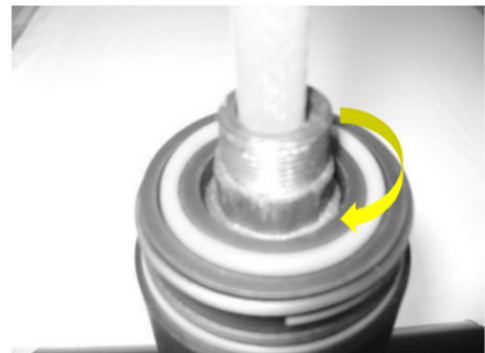
5. Ensure at least 4" (102 mm) remains for cable termination.



3. Apply grease to jacket and feed the cable through the stanchion, piercing the grommet membrane.



6. Tighten the connector until it bottoms out.

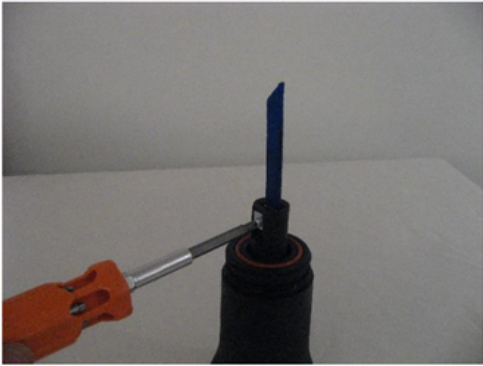


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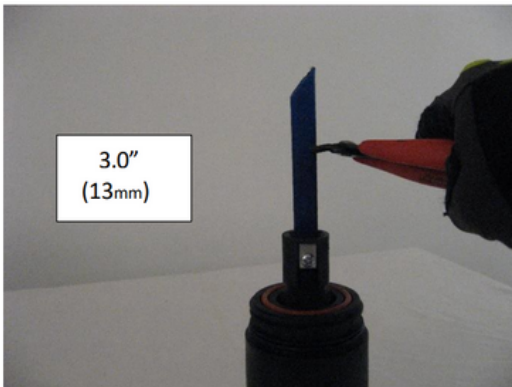
7. Install Strain Relief onto the connector and tighten.



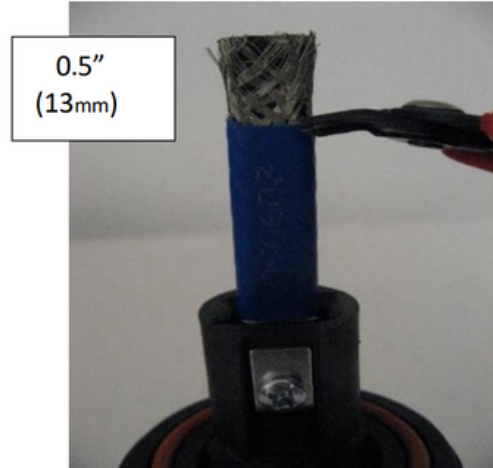
8. Tighten the Strain Relief Screw to secure the cable.



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10. Trim/remove the outer jacket and ground braid 0.5" (13 mm) from the end of the cable.



11. Slide the Silicon Boot over the end of the cable. Ensure the lower O-ring is in place.



12. Thread the End Seal Cap onto the Stanchion.



## INSTALLATION INSTRUCTIONS

13. Install the Cable Tie (supplied) to secure the End Seal Cap to the Stanchion. Trim to length as necessary.

