

LXR Series - X4T
MXR Series - X4T
HXR Series - X4T
In Class I Division 1, Groups B, C & D
Class II/III Division 1, Groups E, F & G
Class I, Zone 1, Groups 11B & H2

INTRODUCTION

These instructions provide for the installation of LXR, MXR & HXR Series - X4T heating cables in Class 1 Division 1 areas.

DESCRIPTION

These heaters employ a semi-conductive self-regulating conductive core covered with an insulating jacket. This jacket is covered by a tinned copper braid, which is further covered by a fluoropolymer outer jacket.

REQUIRED COMPONENTS FOR INSTALLATION

Power Input Kit
Termination Kit
Pipe straps or clamps (for pipe sizes other than 2" to 6")
Ground fault protection device with nominal 30 mA or lower trip level

REQUIRED TOOLS FOR INSTALLATION

Pipe wrench
Crescent wrench or socket wrench set
Wire cutters/strippers
Crimping tool
Razor blades or razor knife
Screw driver

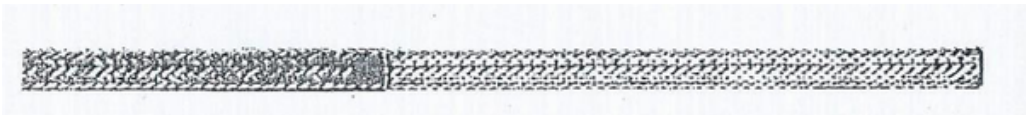
INSTALLATION PRECAUTIONS

All Division 1 hazardous area installations require ground fault protection devices with a nominal 30 mA trip setting. Lower trip levels may also be used.

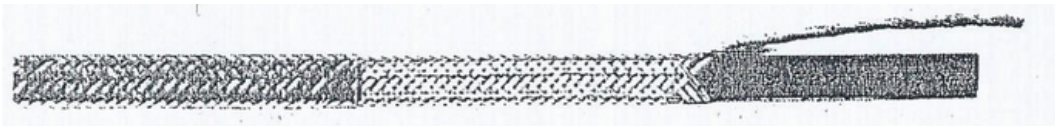
POWER INPUT KIT PCX-HAZ CONTENTS

DESCRIPTION	QUANTITY
Connection Box with Cover	1
Seal Fitting	1
Standoff "T" fitting	1
3/4" Threaded Plug	1
16-14AWG Insulated Butt Connector	2
Close End Crimp Connector	1
Tube of Silicone Sealant	1
Roll of Fiberglass Tape	1
Sealing Compound and Water	1
Packing Fiber	1
Pipe Straps (for 2" to 6" pipes)	2
Caution Label	1
Instruction Sheet	1

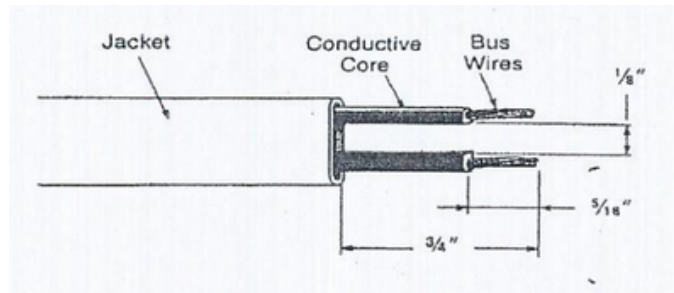
1. Remove the outer jacket 5" from the end of product, exposing the metallic braid.



2. Unravel the metallic braid 2" from end of product exposing the inner jacket. Twist unraveled braid into pigtail and trim end to blunt edge.



3. Remove the heater inner jacket $\frac{3}{4}$ " from the end, exposing the black core.
4. Cut out a strip of core material about $\frac{1}{8}$ " wide by $\frac{3}{4}$ " long from the center of the heater.
5. Remove $\frac{5}{16}$ " of core material from each conductor, being careful not to cut the conductor strands.



6. Attach crimp connector to each of the exposed conductors.
7. Fasten standoff T fitting to seal fitting and seal fitting to connection box.



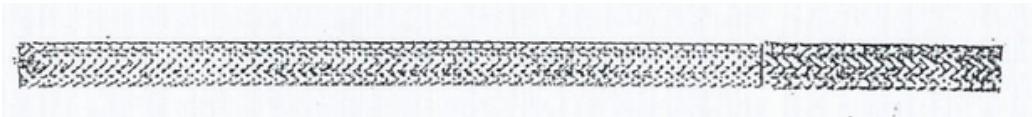
8. Insert the entire heater end (pigtails and bus wire ends) through standoff T fitting and seal fitting and box, bring 6" of heater through front box.
9. Temporarily fasten standoff T fitting to the pipe using appropriate metal pipe straps or clamps.
10. Bring power wires into the box, connect power wires to heater bus wires.
11. Using fiberglass tape, wrap each of the 2 connectors separately, completely covering the crimp connectors.
12. Place a generous amount of RTV sealer over and around the taped power connection, making sure all exposed core is covered.
13. Using fiberglass tape, wrap power connections together, completely covering RTV sealant.
14. Insert the ground wire and pigtailed metallic braid into closed end crimp connector. Firmly crimp.
15. Remove recessed plugs from seal fitting.
16. Loosen standoff T fitting to pipe assembly and pull slightly away from pipe to allow heater to be pulled through box, seal fitting and T until the end of the outer jacket (jacket over braid) is centered in the large hole in the seal fitting.
17. Retighten standoff T fitting to pipe. Firmly secure.
18. Took any extra power wires into the box and tighten cover firmly. Install plugs in any unused box hub.
19. Place packing material around inside base of seal fitting at the connection to the standoff T fitting.
20. Place large recessed plug back in seal fitting. Screw until met with resistance.
21. Take sealing compound pouch and knead it until compound and liquid are thoroughly mixed.
22. Cut off corner of pouch and pour mix into seal fitting.
23. Close fitting opening with small recessed plug.
24. Tighten large recessed plug on seal fitting.
25. Do not disturb for 24 hours until the compound has completely cured.

LXR Series - X4T
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HXR Series - X4T

POWER INPUT KIT ESX-HAZ CONTENTS

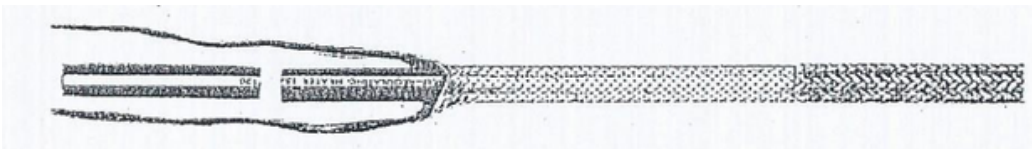
DESCRIPTION	QUANTITY
Connection Box with Cover	1
Seal Fitting	1
Standoff "T" fitting	1
3/4" Threaded Plug	2
12-10AWG Spade Tongue Terminal	1
Silicone Rubber End Boot	1
Silicone Sealant	1
Roll of Fiberglass Tape	1
Sealing Compound and Water	1
Packing Fiber	1
Pipe Straps (for 2" to 6" pipes)	2
Caution Label	1
Instruction Sheet	1

1. Remove the outer jacket 7" from the end of product, exposing the metallic braid.

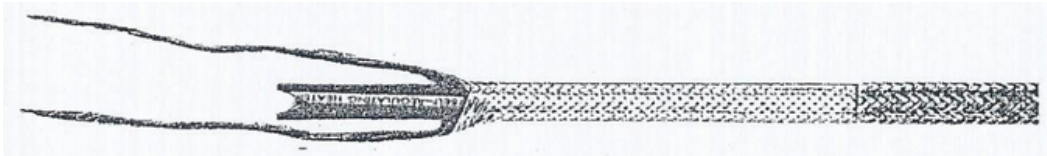


2. Unravel the metallic braid 3 1/2" from end of product exposing the inner jacket.

3. Cut off 2" of the heater.



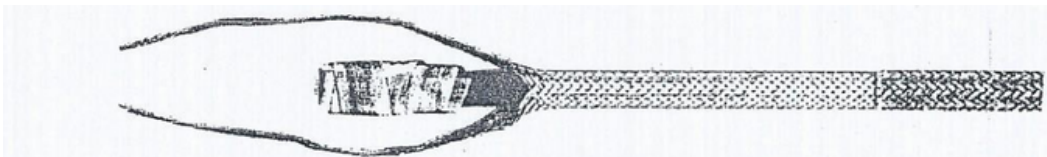
4. Cut a 3/8" V-Shaped notch between the conductors.



5. Place a generous amount of silicone sealant over the end of the product and into the end boot supplied.

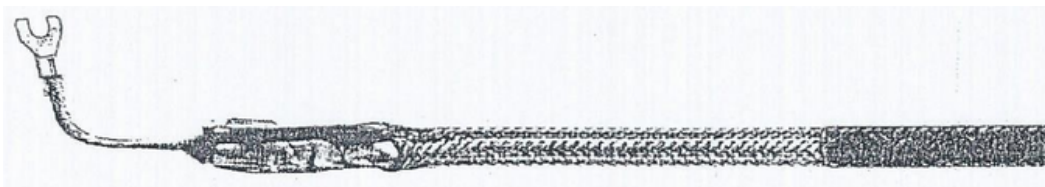
6. Place end boot over end of product making sure it is all the way on.

7. Using fiberglass tape, secure the end boot to the inner jacket wrapping it so as to cover the entire end boot and the inner jacket 1/2" from end boot.



8. Take unraveled braid and bring it up, around and over the taped end boot.

9. Twist the unraveled braid together into a pigtail and attach the Spade Tongue Terminal to the end of the pigtail.



10. Fasten standoff T fitting to seal fitting and seal fitting to the connection box.



11. Insert the terminated end through the standoff T fitting and seal fitting so that the end of the outer jacket (jacket over the braid) is centered in the large hole in the seal fitting and the end of the heater is in the box.

12. Fasten standoff T fitting to the pipe using appropriate metal straps or clamps.

13. Attach the spade tongue terminal on end of the braid to the grounding point inside box.

14. Place cover on connection box and tighten firmly. Place plugs in unused hubs of box.

15. Place packing material around inside base of fitting at the connection to the standoff T fitting.

16. Place large recessed plug back in seal fitting. Screw in until met with resistance.

17. Take sealing compound pouch and knead it until compound are liquid are thoroughly mixed.

18. Cut off corner of pouch and pour mix into seal fitting.

19. Close fitting opening with small recessed plug.

20. Tighten large recessed plug on seal fitting.

21. Do not disturb for 24 hours until the compound has completely cured.

ATTACHING HEATER TO PIPE

1. Using the fiberglass tape or appropriate pipe straps, secure heater to pipe.
2. To ensure maximum heat transfer, lay heater as flat as possible on pipe and cover with required amount of insulation.