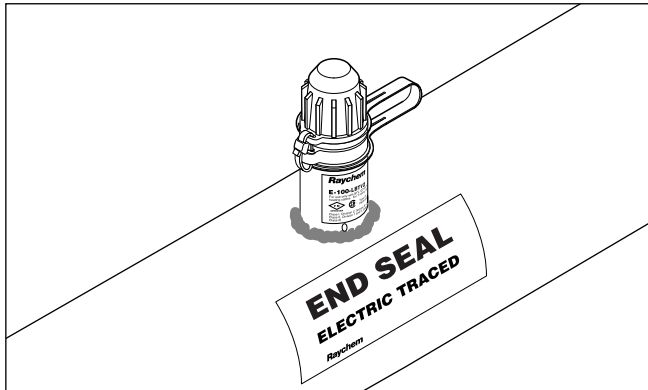


E-100-LBTV2

High-Profile End Seal

Installation Instructions



Description

The E-100-LBTV2 is a NEMA 4X-rated end seal kit for use with Raychem LBTV2-CT and SLBTV2-CT heating cables. Once installed, the end seal is easily re-entered for maintenance; the heating cable can be accessed without removing the end seal.

This kit may be installed at temperatures as low as -40°F (-40°C). For easier installation store above freezing until just before installation. For technical support call Tyco Thermal Controls at (800) 545-6258.

Tools Required

- Wire cutters
- Utility knife
- Slotted screwdriver or nut driver
- Adjustable pliers (two required)

Materials Required

- Pipe strap
- GT-66 or GS-54 glass cloth tape

Optional Materials

- For boot replacement order E-100-LBTV2-BOOT-5/PACK P/N 335089-000

Approvals

Hazardous Locations

CL I, ZN1, AEx e II T6



Class I, Div. 2, Groups A, B, C, D

Class II, Div. 1 and 2, Groups E, F, G

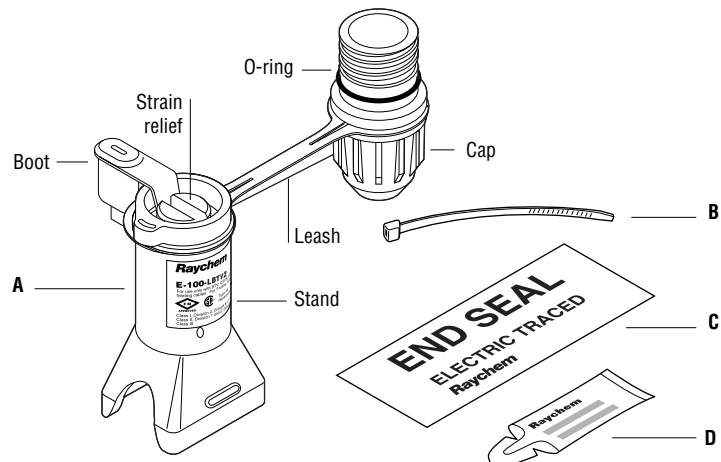
Class III

Ex e II T6



Kit Contents

Item	Qty	Description
A	1	End seal assembly
B	1	Cable tie
C	1	End seal label
D	1	Cable lubricant



WARNING:

This component 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 the requirements of Tyco Thermal Controls, agency certifications, and national electrical 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 Tyco Thermal Controls-specified parts only. Do not substitute parts or vinyl electrical tape.
- The black heating cable core is conductive and can short. It must be properly insulated and kept dry.
- Keep components and heating cable ends dry before and during installation.
- Bus wires will short if they contact each other. Keep bus wires separated.
- Use only fire-resistant insulation materials such as fiberglass wrap.
- Leave these installation instructions with the user for future reference.

CAUTION:

Health Hazard: Prolonged or repeated contact with the sealant in the end seal boot may cause skin irritation. Wash hands thoroughly. Overheating or burning the sealant will produce fumes that may cause polymer fume fever. Avoid contamination of cigarettes or tobacco. Consult MSDS RAY5510 for further information.

CHEMTREC 24-hour emergency telephone:
(800) 424-9300.

Non-emergency health and safety information:
(800) 545-6258.

E-100-LBTV2 Installation Instructions

- This product is for use only with LBTV2-CT and SLBTV2-CT heating cables.

Bus wires
Core
Inner jacket
Braid
Outer jacket

1

- Cut heating cable as shown.

45°

2

- Lubricate end of outer jacket.

25 mm (1")

Do not lubricate end of heating cable

- Optional: If stand is to be installed on bottom side of pipe, knock out drain hole prior to installing cable.
- Immediately push heating cable through stand as shown.
- Square off heating cable end with a 90° angle cut.

30 to 45 cm (12" to 18")

Drain hole

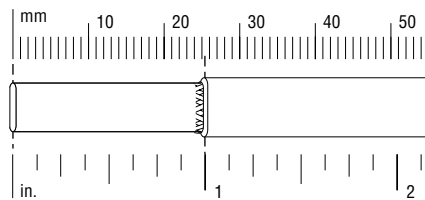
3

- Lightly score outer jacket.
- Bend heating cable to break jacket at score, then peel off jacket.

25 mm (1")

4

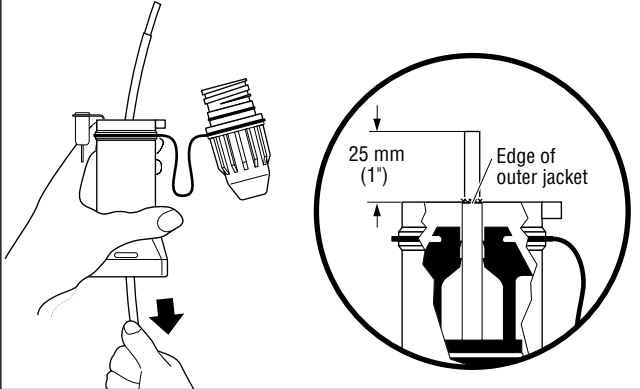
- Remove all exposed braid.



E-100-LBTV2 Installation Instructions

5

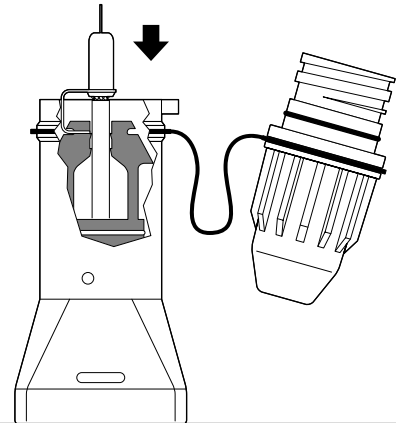
- Pull heating cable back into stand until top edge of outer jacket is aligned with top of stand.



6

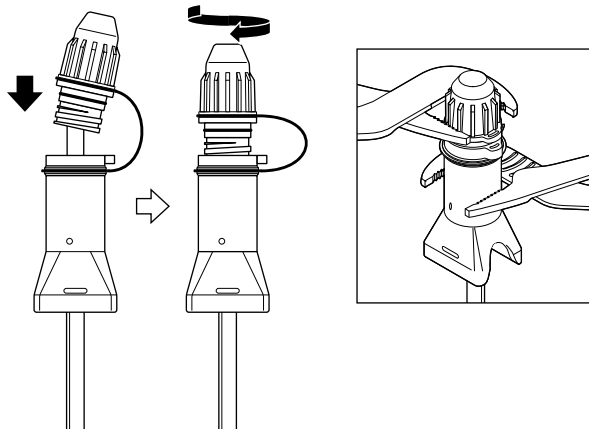
CAUTION: Health Hazard. Wash hands after contact with sealant. Consult material safety data sheet RAY5510.

- Push boot onto the end of the heating cable until it bottoms out. Be careful not to squeeze sealant out of boot.



7

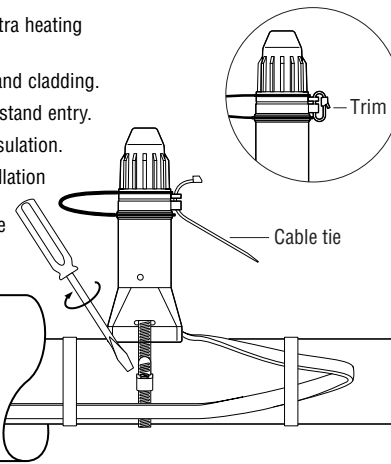
- Install cap; tighten until slots on cap and stand align.



8

- Fasten end seal to pipe with strap. Do not pinch heating cable.
- Install cable tie.
- Loop and tape extra heating cable to pipe.
- Apply insulation and cladding.
- Weather-seal the stand entry.
- Fasten label to insulation.
- Leave these installation instructions with the user for future reference.

END SEAL
ELECTRIC TRACED
Raychem



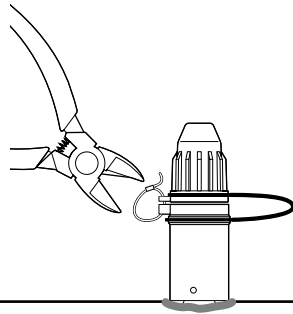
E-100-LBTV2 Installation Instructions

E-100-LBTV2 Re-Entry

A

⚠ WARNING: Shock Hazard. Conductors will be exposed. Re-entry should be performed by qualified personnel. Follow standard electrical lockout procedures before opening end seal.

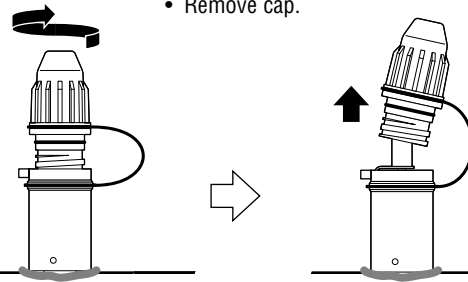
- Turn off power.
- Clip cable tie and remove.



END SEAL

B

- Remove cap.



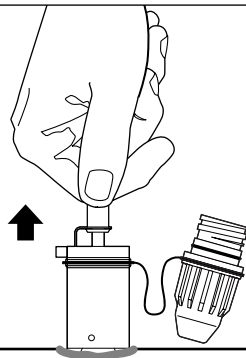
END SEAL

END SEAL

C

⚠ CAUTION: Health Hazard. Wash hands after contact with sealant. Consult material safety data sheet RAY5510.

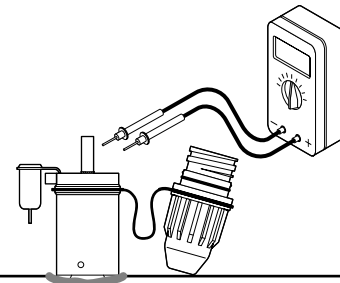
- Remove boot. Be careful not to squeeze sealant out of boot.



END SEAL

D

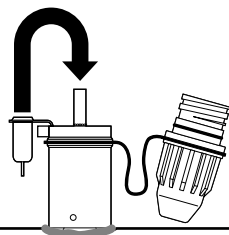
- Test as required.



END SEAL

E

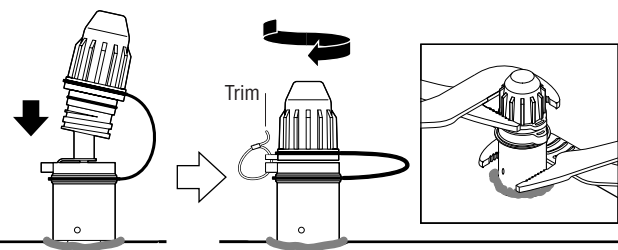
- **Inspect boot.** If boot is damaged or sealant appears dry or missing, replace boot. For replacement boots, order kit E-100-LBTV2-BOOT-5/PACK. Otherwise, re-install boot.



END SEAL

F

- Install cap; tighten until slots on cap and stand align.
- Install cable tie.



END SEAL

END SEAL

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