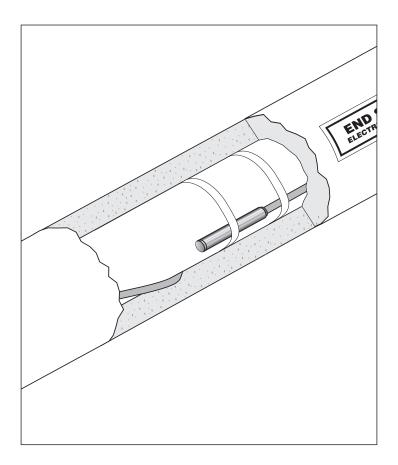
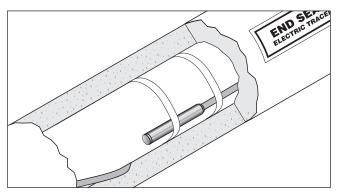
Raychem

2SC-STC

End Termination Kit Installation Instructions





APPROVALS

Hazardous Locations

FM APPROVED

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

Class

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

For T-Rating, see design documentation

KIT CONTENTS

ltem	Qty	Description			
Α	1	Metal end cap			
В	1	Rubber collar			
С	3	Tape strips (2 required, 1 extra)			
D	1	ETL-END-SEAL label			
Е	1	Coil of Kester® 48 core LF solder for nickel			
F	2	Parallel splices (large), spare included			
G	2	Parallel splices (small), spare included			
Н	1	KE 1204 silicone rubber potting compound Part A			
I	1	KE 1204 silicone rubber potting compound Part B			
J	2	Stir sticks			
K	2	Material Safety Data Sheets (not shown)			

DESCRIPTION

The Raychem 2SC-STC is a NEMA 4 rated end termination kit designed for use with Raychem 2SC30, 40, 50 (-CT), 2SC/H30, 40, 50 (-CT) and 2SC/F30, 40, 50 (-CR) series heating cables in hazardous locations.

This kit may be installed at temperatures as low as $-40^{\circ}F$ ($-40^{\circ}C$). For easier installation, store above freezing until just before installation.

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

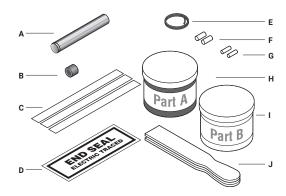
TOOLS REQUIRED

Utility knife

- Diagonal cutters
- Wire strippers
- · Disposable towel or rag
- · Soldering tool or torch (with small tip)
- Thomas & Betts WT2000 crimp tool or equivalent (P/N 273435-000) Crimp tools can be ordered from Chemelex.

ADDITIONAL MATERIALS REQUIRED

- Glass cloth tape:
 - GT-66 for installation temperature above 40°F (4°C)
 - GS-54 for installation temperature above -40°F (-40°C)



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 Chemelex, 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 Chemelex -specified parts only. Do not use substitute parts or vinyl electrical tape.

- Damaged conductors can overheat or short.
 Do not break conductor wire strands when scoring the jacket or removing insulation.
- Keep components and heating cable ends dry before and during installation.
- Use only fire-resistant insulation materials, such as fiberglass wrap or flame-retardant foam.
- Soldering tools or torches can cause fire or explosion in hazardous areas. Be sure there are no flammable materials or vapors in the area before using these tools.
- Wrap exposed conductors with supplied tape strips to prevent shorts.

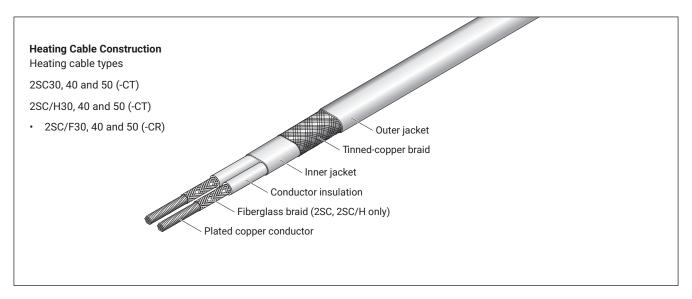
A CAUTION:

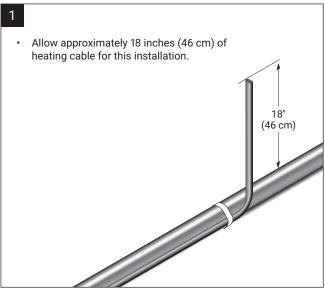
Health Hazard: Hot solder can burn eyes and skin. Fumes during soldering are irritating to eyes and may cause headache and respiratory system irritation or damage. Prolonged or repeated exposure to rosin flux fumes during soldering may result in allergic reaction in a sensitive person, resulting in asthma symptoms. Consult MSDS VEN0043 for further information.

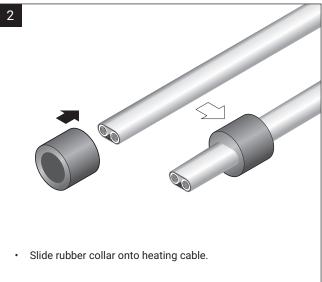
Silicone rubber compound Part B, may generate flammable and explosive hydrogen gas if it comes in contact with an acidic, basic or oxidizing material. Personal contact with the silicone rubber compound may cause slight eye or skin irritation. Consult MSDS VEN0030 and VEN0031 for further information.

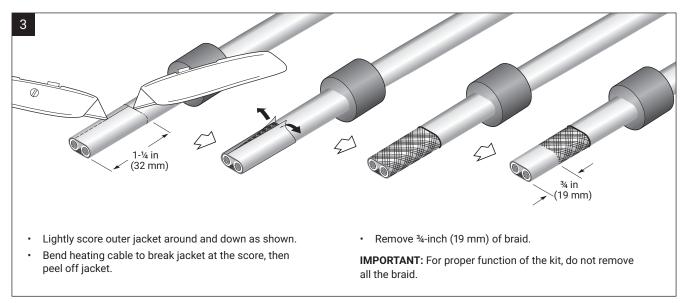
CHEMTREC 24-hour emergency telephone: (800) 424-9300

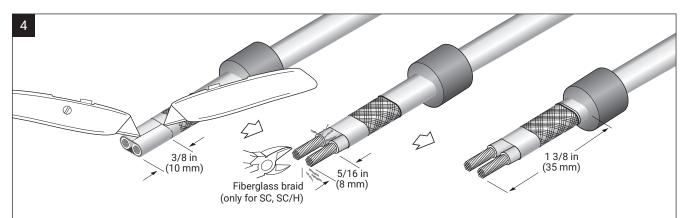
Non-emergency health and safety information: (800) 545-6258.











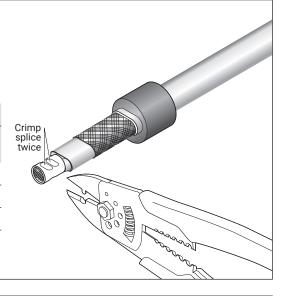
- Lightly score around and down to remove %-inch (10 mm) inner jacket.
- Remove 5/6-inch (8 mm) insulation and fiberglass braid to expose the bare conductors.
- Position collar 1 %-inch (35 mm) from end of heating cable.

Ę

- · Twist the conductors together.
- Use the WT2000 crimp tool and appropriate splice to crimp heating cable conductors together (see table).
- · Crimp splice twice.

	Thomas & Betts (T&B)				
Heating cable (1)	Heating cable conductor size	Splice Catalog no.	Splice size	Crimp tool die	
2SC30-CT	18 AWG	B14-PS-M	Small	Non-Insul	
2SC40-CT	16 AWG	B14-PS-M	Small	Non-Insul	
2SC50-CT	14 AWG	C10-PS-D	Large	Non-Insul	

 $^{^{(1)}}$ The above table is also applicable for 2SC/H30, 40, 50 (-CT) and 2SC/F30, 40, 50 (-CR) heating cables. For replacement spices, call Chemelex $\,$ at (800) 545-6258.

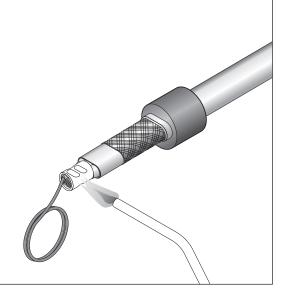


6

WARNING: Fire and Health Hazard

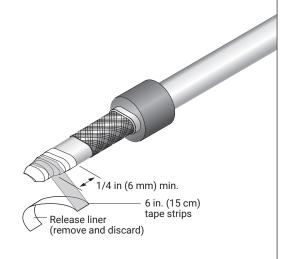
Soldering tools or minitorches can cause fire or explosion in hazardous areas. Be sure there are no flammable materials or vapors in the area before using these tools. Follow all site safety guidelines when working in hazardous areas.

- Use only solder provided with kit. Only Kester 48 core LF has been qualified with SC cables.
- · Refer to solder material safety data sheet packaged with kit.
- Heat the splice using a soldering tool, or propane or MAPP gas torch.
 Note: MAPP gas may be required if the connections are being soldered at temperatures below -4°F (-20°C). Heat the center of the splice until it is hot enough to melt the solder placed at the end. Allow the splice to cool before proceeding to the next step.



IMPORTANT: To ensure proper electrical insulation, use the specified high temperature Teflon® tape provided with the kit. Do not use common vinyl tape that does not have adequate temperature rating.

· Wrap the crimped connection with two strips of tape, covering splice and ¼ inch (6 mm) of conductor insulation (approximately three overlapped layers). DO NOT WRAP THE BRAID WITH TAPE

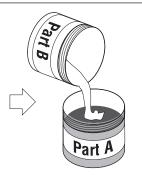


8

WARNING: Health Hazard Refer to silicone rubber material safety data sheet packaged with kit.

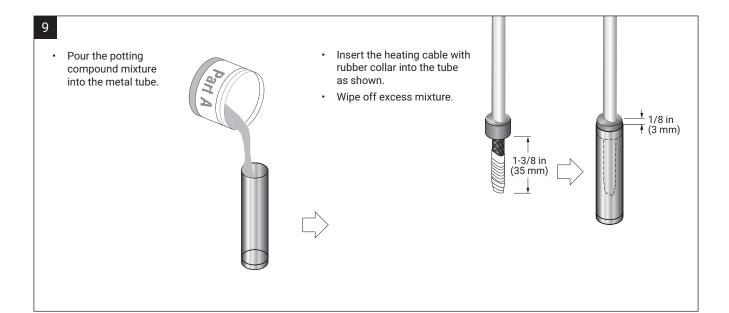


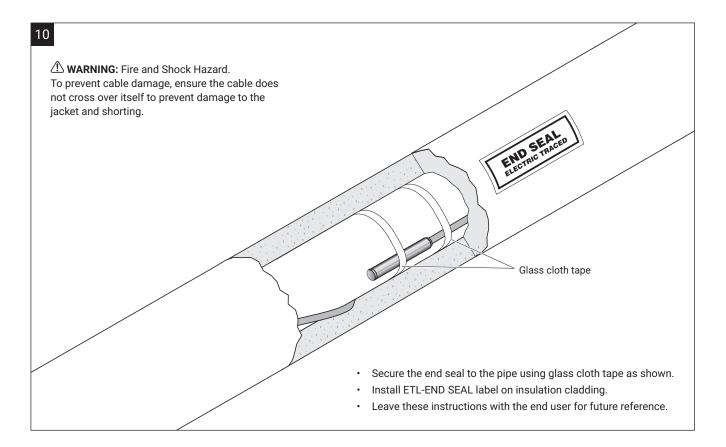


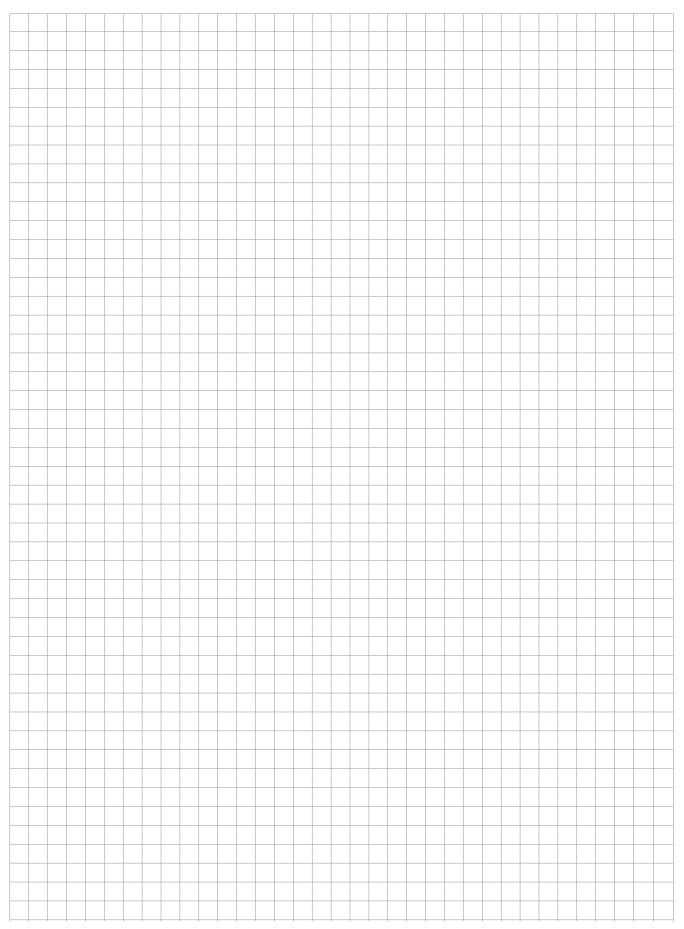




- Open the two containers: one labeled Part A, and the other Part B.
- Use separate wooden sticks to stir the contents of each container until smooth and homogeneous.
- Pour all the contents of the container labeled Part B into the container labeled Part A and mix thoroughly until the color is uniform.







North America

Tel +1 800 545 6258 info@chemelex.com

Latin America

Tel +1 713 868 4800 info@chemelex.com

Europe, Middle East, Africa, India

Tel +32 16 213 511 Fax +32 16 213 604 info@chemelex.com **Asia Pacific**

Tel +86 21 2412 1688 infoAPAC@chemelex.com



Raychem

Tracer

Pyrotenax

Nuheat

©2025 Chemelex. All Chemelex marks and logos are owned or licensed by Chemelex Europe GmbH or its affiliates. All other trademarks are the property of their respective owners. Chemelex reserves the right to change specifications without notice.

RAYCHEM-IM-H57826-25CSTC-EN-2504 Chemelex.com