

Heating Cable

DL & EL Series Connection Accessories

DL Series

- Re-usable Components
- Through-the-Insulation Mounting Provides High Visibility
- Easy Access for Maintenance

EL Series

- Low Profile Provides Easy Installation of Insulation
- Contains Standard, Off-the-Shelf Electrical Connection Components

STS offers cable termination kits in DL for high profile, through-the-insulation styles and EL for low profile, under-the-insulation. Both styles are approved for hazardous area applications.



RTPC



RTST



RTES



Ordering Information

DL Accessories		EL Accessories	
Model	Used With	Model	Used With
Power Connection Kit			
RTPC RTPC-SL	SRL-C SRL-CR, CT SRP-C, SRP-CT CWM-C CWM-CT SRL-MC SRL-MCR, MCT SRM/E-C SRM/E-CT	SSK PJB RG-PK-1	SRL-C, SRL-CR, SRL-CT, SRF-C, CWM-C, CWM-CT SRF-RG SRP-C, SRP-CT HWM
Splice & Tee Kit			
RTST RTST-SL	SRL-C SRL-CR, CT SRP-C, SRP-CT CWM-C CWM-CT SRL-MC SRL-MCR, MCT SRM/E-C SRM/E-CT	RT-RST RT-TST RG-SK-1	SRL-C, SRL-CR, SRF-C CWM-C, CWM-CT SRF-RG, SRP-C SRP-CT
End Seal Kit			
RTES	SRL-C SRL-CR, CT SRP-C, SRP-CT CWM-C CWM-CT SRL-MC SRL-MCR, MCT SRM/E-C SRM/E-CT	RT-RES RG-EK-1	SRL-C, SRL-CR, SRF-C SRF-RG

To Order — Refer to the DL & EL General Application Accessories in this section.

Attachment Accessories

Model	Description
FT-3	Fiberglass® tape to affix cable to pipe
AT-1	Aluminum tape to improve heat transfer to pipe
PS-1	Stainless Steel Pipe strap to mount power connection box to pipe, 1/2 - 3/4" pipes
PS-3	Stainless Steel Pipe strap to mount power connection box to pipe, 1 - 3-1/2" pipes
PS-10	Stainless Steel Pipe strap to mount power connection box to pipe, 2-1/2 - 9" pipes
PS-20	Stainless Steel Pipe strap to mount power connection box to pipe, 9" - 19.5" pipes
CL-1	Caution labels, apply every 10 feet to insulation to alert personnel

To Order — Refer to the DL & EL General Application Accessories in this section.



**SOUTHEAST
THERMAL SYSTEMS**

Ph: 704-399-4248 www.sethermal.com

Heating Cable

DL

Integrated Connection Accessories



- **Power Connection Box**
 - NEMA 4X Enclosure
 - Cable Entry Up to 3 Cables
 - 3/4" Conduit Hub Opening
- **Splice & Tee Box**
 - NEMA 4X Enclosure
 - Cable Entry Up to 3 Cables
 - Straight or Tee Connections
- **End Seal Fitting**
 - NEMA 4X Enclosure
 - Fits All Pipe Sizes
 - Mounting Feet for Installing on Flat Surfaces
- **Stainless Steel Hardware**
- **Corrosion & Weather Resistant Ryton® Construction**

RTPC



RTST



RTES



Description

The DL Series Installation Accessories for Chromalox heat tracing products represents the state of the art in heat tracing. Each model in the series is designed to satisfy the demands of a particular operation. These high-quality models combine a variety of functions in a convenient, easy to use and economical package.

Applications

Connection of all Rapid Trace Heating Cables to Customer Supplied Power Wiring in any of the following applications:

- Hydrocarbon and Chemical Product Piping
- Process Temperature Maintenance
- Fluid Flow and Viscosity Maintenance
- Freeze Protection.

Features

- Molded of Durable Plastic Material (Ryton®, PPS)¹
- High Service Temperature
- Corrosion Resistant
- Integrated Connection Accessories and Controls
- Thermal Stability

- Non-Flammable
- High Strength and Rigidity
- Stainless Steel Hardware to Ensure the Integrity of the System
- Liquid Tight Design prevents moisture from reaching the electrical connections. All models are rated NEMA 4X.

Approvals²

UL, CSA, FM Approved for most models, consult specific product information.

UL Listed for ordinary areas

CSA Certified for ordinary and:

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

FM Approved for ordinary and:

- Class I, Div. 2, Groups B, C, D
- Class II, Div. 2, Groups E, F
- Class III, Div. 2 Areas.

Notes —

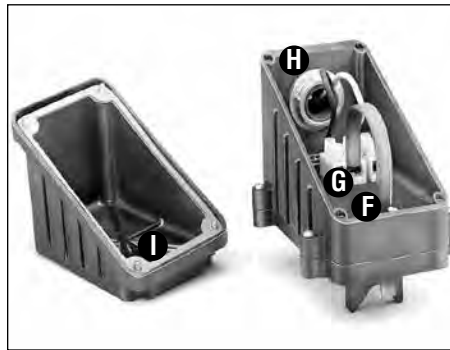
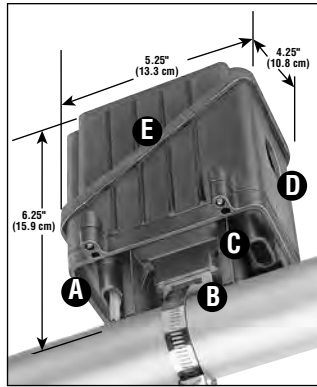
1. Ryton®, is a registered trade name of Phillips Chemical Company.
2. Depends on specific model and cable applied.

DL

Integrated Connection Accessories (*cont'd.*)

RTPC — Power Connection Kit

RTPC Power Connection Box is a NEMA 4X rated junction box designed to connect all Chromalox Rapid Trace Heating Cables to customer supplied power wiring. This kit provides waterproof cable entry for up to three cables, enclosure support, terminal block and a waterproof, corrosion resistant wiring enclosure with an opening to accept a 3/4" conduit hub (Chromalox CCH-2 or equal). A pipe strap (Chromalox PS or equal) is required to attach this model to a pipe.



RTPC — Power Connection Kit

- 1 molded junction box consisting of:
- 1 base
 - 1 box w/conduit opening
 - 1 lid
 - 1 three position terminal block
 - 1 mounting screw for terminal block
 - 1 GRSR self-regulating cable sealing grommet
 - 1 GRCW constant wattage sealing grommet

Ordering Information — RTPC

Model	PCN	Stock	Wt. (Lbs.)
RTPC	389554	S	1
RTPC-SL1	389626	S	2
RTPC-SL2	389634	S	2
RTPC-SL3	389642	S	2

Construction

- A** Three strategically placed cable entries allow maximum flexibility for insulation (Heating cable cut away for clarity).
- B** Stainless steel tiedown support provides positive attachment to pipes.¹
- C** Heavy duty support legs give stable pipe mounting and provide conduit clearance for applications with up to three inches of insulation.
- D** Opening for 3/4" (20 mm) conduit hub.¹
- E** Oblique sided box and cover allow easy access for wiring.
- F** Cable grommets provide water-tight seal between base, box and cable. Use GRSR with all self-regulating cable. Use GRCW for constant wattage cables. One of each grommet included in kit. See table below for spare grommets.
- G** Three position terminal block for easy wiring.
- H** Power wiring entry. Conduit hub not included.¹
- I** Gasket provides water-tight seal between box and lid. It is affixed to the lid and holds the mounting hardware during assembly.

Note 1 — Refer to DL & EL General Application Accessories at the end of this section.

RTPC-SL — Power Connection Kit w/Signal Light (Ordinary Area Only)

- 1 molded junction box consisting of:
- 1 base
 - 1 box w/conduit opening
 - 1 lid w/signal light installed (LED style)
 - Specify: SL1(120V), SL2(208-240V), SL3(277V) operation
 - 1 three position terminal block
 - 1 mounting screw for terminal block
 - 1 GRSR self-regulating cable sealing grommet
 - 1 GRCW constant wattage sealing grommet

Spare Grommets

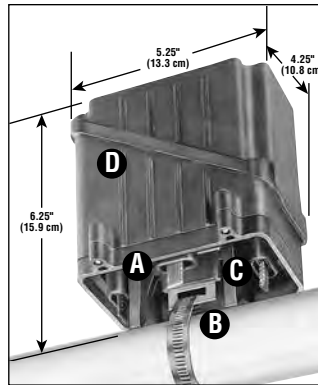
		PCN
GRS	RTD/Capillary type	385000
GRO	Blank	385019
GRSR	Self Regulating type	389714
GRCW	Constant Wattage type	389722

DL

Integrated Connection Accessories *(cont'd.)*

RTST — Splice & Tee Kit

RTST Splice & Tee Box is a NEMA 4X rated junction box designed to make straight or tee splices for all Chromalox Rapid Trace Heating Cables. This model provides waterproof cable entry (for two cables for a splice or three cables for a tee), enclosure support, terminal block and a waterproof, corrosion resistant wiring enclosure. A pipe strap (Chromalox PS or equal) is required to attach this model to a pipe.



RTST — Splice & Tee Kit

- 1 molded junction box consisting of:
 - 1 base
 - 1 box
 - 1 lid
- 1 three position terminal block
- 1 mounting screw for terminal block
- 3 GRSR Self-regulating cable sealing grommet
- 3 GRCW Constant wattage sealing grommets

Ordering Information — RTPC

Model	PCN	Stock	Wt. (Lbs.)
RTST	389562	S	1
RTST-SL1	389650	S	2
RTST-SL2	389669	S	2
RTST-SL3	389677	S	2

Construction

- A** Three strategically placed cable entries allow maximum flexibility for insulation (heating cable cut away for clarity).
- B** Stainless steel tiedown support provides positive attachment to pipes.¹
- C** Heavy duty support legs give stable pipe mounting and provide conduit clearance for applications with up to three inches of insulation.
- D** Oblique sided box and cover allow easy access for wiring.
- E** Cable grommets provide water-tight seal between base, box and cable. Use GRSR with all self-regulating cable. Use GRCW for constant wattage cables. Three of each grommet included in kit. See table below for spare grommets.
- F** Three position terminal block for easy wiring.
- G** Gasket provides water-tight seal between box and lid. It is affixed to the lid and holds the mounting hardware during assembly.

Note 1 — Refer to DL & EL General Application Accessories at the end of this section.

RTST-SL — Splice & Tee Kit w/Signal Light (Ordinary Area Only)

- 1 molded junction box consisting of:
 - 1 base
 - 1 box
 - 1 lid w/signal light installed (LED style)
- Specify: SL1 for 120 Volt, SL2 for 208-240 Volt, SL3 for 277 Volt operation
- 1 three position terminal block
- 1 mounting screw for terminal block
- 1 GRSR Self-regulating cable sealing grommet
- 1 GRCW Constant wattage sealing grommet

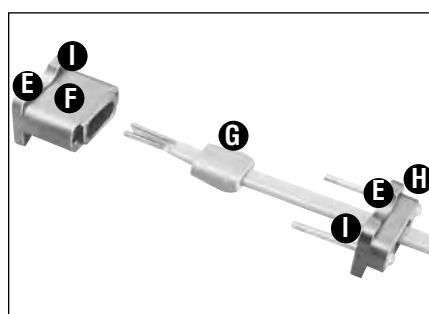
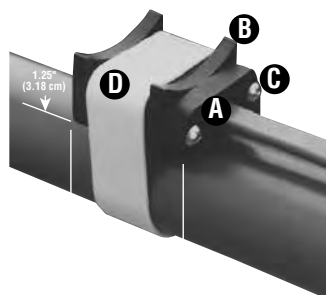
Spare	Grommets	PCN
GRS	RTD/Capillary type	385000
GRO	Blank	385019
GRSR	Self Regulating type	389714
GRCW	Constant Wattage type	389722

DL

Integrated Connection Accessories (*cont'd.*)

RTES — End Seal Kit

RTES End Seal Fitting is a NEMA 4X rated enclosure designed to terminate all Chromalox Rapid Trace Heating Cables. This model provides waterproof cable entry for one cable, enclosure support and a waterproof corrosion resistant enclosure. The fitting has two different curved mounting surfaces. One side has a 1-1/2" radius curved surface that provides stable support on pipes with a diameter of 3" or more. The other side has a 1/2" radius curved surface which permits a better fit on smaller pipes. In addition, this side also has four "feet" for installation on flat surfaces.



RTES — End Seal Kit

- 1 end cap
- 1 pressure plate
- 1 GRSR Self-regulating cable sealing grommet
- 1 GRCW Constant wattage cable sealing grommet

DL Accessory Components

MP-1 (385780)



Mounting Plate Kit Attachments

For installing RTPC and RTST kits on flat surfaces. Kit includes:

- 1 mounting plate
- 1 lock washer
- 1 bolt
- 1 washer
- 1 nut

Note — The complete line of DL & EL Mounting Accessories is located at the end of this section.

Construction

- A** Cable entry.
- B** Three inch diameter curved mounting surface.
- C** Captured stainless steel hardware.
- D** One inch wide strapping channel for secure mounting.
- E** One-half inch radius curved mounting surface.
- F** End cap.
- G** Cable grommet provides water-tight seal between end cap and pressure plate. Use GRSR with all self-regulating cables. Use GRCW with constant wattage cables. One of each grommet included in kit. See table below for spare grommets.
- H** Pressure plate.
- I** Mounting feet for installation on flat surfaces.

Ordering Information — RTES

Model	PCN	Stock	Wt. (Lbs.)
RTES	389570	S	1

Spare Grommets

PCN

GRS	RTD/Capillary type	385000
GRO	Blank	385019
GRSR	Self-Regulating type	389714
GRCW	Constant wattage type	389722

EL
Standard
Connection Accessories

- Junction Box Connection Kits for SRL, SRF and CWM Applications
- Splice & Tee Kits for SRL, SRF and CWM Applications
- End Seal Kits for SRL and SRF Applications



Description

Each model in the EL Series Installation Accessories for Chromalox Rapid Trace Heating Cable products is designed to satisfy the demands of a particular operation. These high-quality models combine a variety of functions in a convenient, easy to use and economical package.

Applications

Connection of selected rapid trace heating cables to customer supplied power wiring in any of the following applications:

- Freeze Protection
- Hydrocarbon and Chemical Product Piping
- Process Temperature Maintenance
- Fluid Flow and Viscosity Maintenance.

Approvals

- UL* Listed for ordinary areas
- CSA* Certified for ordinary areas
- FM** Approved for ordinary areas
- * Does not include SSK
- ** Does not include SSK and PJB

Ordering Information

Model	Used With
Power Connection Kit	
SSK PJB	SRF-C, SRF-CR, SRL-C, SRL-CR, SRL-CT, CWM-C, CWM-CT, SRP-C, SRP-CT
Splice & Tee Kit	
RT-RST RT-TST	SRL-C, SRL-CR, SRF-C CWM-C, CT, SRP-C, SRP-CT
End Seal Kit	
RT-RES	SRL-C, SRL-CR, SRF-C
To Order — Refer to the DL & EL General Application Accessories in this section.	

Heating Cable

EL

Standard Connection Accessories (*cont'd.*)

Accessories



Junction Box Connection Kit SSK (393617)

- (1) compression fitting
- (1) pipe stand off
- (1) tube of RTV sealant
- (1) O-ring
- (1) 1" locknut
- (1) self-regulating cable grommet
- (1) constant wattage cable grommet
- (1) silicone boot
- (2) uninsulated barrel connectors
- (2) insulated barrel connectors



Caution Labels CL-1 (382424)

- (5) electric heat tracing caution labels, weather resistant



Rain Tight Junction Box PJB (393676)

Polycarbonate watertight enclosure for use with SSK



Splice & Tee Kit (for Constant Wattage and SRM/E Cable) RT-TST (383566)

- (5) 7" long large heat shrink tubes
- (10) 1-1/2" long small heat shrink tubes
- (5) 10" lengths of sealant tape
- (15) uninsulated barrel connectors
- (1) tube of RTV sealant



End Seal Kit (for SRL cable) RT-RES (383574)

- (5) 1/2" diameter heat shrink caps



Splice & Tee Kit (for SRL cable) RT-RST (383558)

- (5) 8" long heat shrink tubes
- (5) 1/2" lengths of sealant tape
- (10) insulated barrel connectors
- (5) uninsulated barrel connectors



Conduit Hub w/Grounding Lug CCH-2 (385650)

Corrosion resistant hub for 3/4" conduit. Fits opening in PJB, DL, U Series and DTS. Includes ground connector.

Heating Cable

DL & EL Series General Application Accessories

Accessories



**Conduit Hub
Cable Attachments
CCH-2 (385650)**

Corrosion resistant for 3/4" conduit. Fits opening in PJB, DL, U Series and DTS. Includes a ground connector.



**Fiberglass® Tape
Cable Attachments
FT-3 (389941)**

66 foot roll glass cloth tape with pressure-sensitive thermosetting silicone adhesive 3/8" wide. 310°F (155°C) rating. Strap at one foot intervals at minimum application temperatures of -40°F (-40°C).



**Aluminum Tape
Cable Attachments
AT-1 (383355)**

180 foot roll aluminum foil installation tape with pressure-sensitive acrylic adhesive. 2-mil thickness with high tensile strength; 2-1/2" wide. 200°F (93°C) rating. Minimum application temperatures 40°F (5°C).



**Cable Stripping Tool
w/16 awg Blades ST-1 (393510)**

Tool for stripping the base jacket and the conductive matrix from the cable buss wires. The tool is stocked with 16 awg blades for stripping SRL, HSRL, SRM/E, HSRM and SRP and Thermwire products.



**Replacement Blades
PCN 393537**

Blades for use with the Cable Stripping Tool. 16 awg blades for SRL, HSRL, SRM/E, HSRM, SRP, SRF and Thermwire products.



**Stainless Steel Pipe Strap Kit
Attachments
PS-1, 3, 10 & 20**

PS-1 (382352) 1/2 to 3/4" pipes
PS-3 (382360) 1 to 3-1/2" pipes
PS-10 (382379) 2-1/2 to 9" pipes
PS-20 (382256) 9" to 19.5" pipes



**Caution Labels
CL-1 (382424)**

5 electric heat tracing caution labels, weather resistant.

Ordering Information — Cable Attachments

Description	Model	PCN	Stock	Wt. (Lbs.)
Fiberglass® Tape	FT-3	389941	S	1
Aluminum Tape	AT-1	383355	S	2
Stainless Steel Pipe Strap Kit	PS-1 PS-3 PS-10 PS-20	382352 382360 382379 382256	S S S S	1 1 1 1
Caution Labels	CL-1	382424	S	1
Cable Stripping Tool with 16 awg blades	ST-1	393510	S	1
16 awg Replacement Blades	BL-2	393537	S	1

To Order – Specify model, PCN and quantity.

Tape Type	Rolls Needed per 100' of Pipe								
	Pipe Dia. (In.)								
	1/2"	1	2	3	4	6	8	10	12
FT-3	1	2	4	4	6	8	10	12	15

ACCESSORIES
AND CONTROLS



**SOUTHEAST
THERMAL SYSTEMS**