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

Chromalox 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.

Ordering Information

<table>
<thead>
<tr>
<th>DL Accessories</th>
<th>EL Accessories</th>
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<tr>
<td><strong>Power Connection Kit</strong></td>
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<tr>
<td>RTPC</td>
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To Order — Refer to the DL & EL General Application Accessories in this section.

Attachment Accessories

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<td>FT-3</td>
<td>Fiberglas® tape to affix cable to pipe</td>
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<tr>
<td>AT-1</td>
<td>Aluminum tape to improve heat transfer to pipe</td>
</tr>
<tr>
<td>PS-1</td>
<td>Stainless Steel Pipe strap to mount power connection box to pipe, 1/2 - 3/4&quot; pipes</td>
</tr>
<tr>
<td>PS-3</td>
<td>Stainless Steel Pipe strap to mount power connection box to pipe, 1 - 3-1/2&quot; pipes</td>
</tr>
<tr>
<td>PS-10</td>
<td>Stainless Steel Pipe strap to mount power connection box to pipe, 2-1/2 - 9&quot; pipes</td>
</tr>
<tr>
<td>PS-20</td>
<td>Stainless Steel Pipe strap to mount power connection box to pipe, 9&quot; - 19.5&quot; pipes</td>
</tr>
<tr>
<td>CL-1</td>
<td>Caution labels, apply every 10 feet to insulation to alert personnel</td>
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To Order — Refer to the DL & EL General Application Accessories in this section.
**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

¹ Ryton® is a registered trade name of Phillips Chemical Company.

**Approvals**

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.
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**

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**Construction**

- Three strategically placed cable entries allow maximum flexibility for insulation (Heating cable cut away for clarity).
- Stainless steel tiedown support provides positive attachment to pipes.¹
- Heavy duty support legs give stable pipe mounting and provide conduit clearance for applications with up to three inches of insulation.
- Opening for 3/4" (20 mm) conduit hub.¹
- Oblique sided box and cover allow easy access for wiring.
- 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.
- Three position terminal block for easy wiring.
- Power wiring entry. Conduit hub not included.¹
- 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)
1 GRSR self-regulating cable sealing grommet
1 GRCW constant wattage sealing grommet

**Spare Grommets**

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<td>GRCW</td>
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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.

- Three strategically placed cable entries allow maximum flexibility for insulation (heating cable cut away for clarity).
- Stainless steel tiedown support provides positive attachment to pipes.
- Heavy duty support legs give stable pipe mounting and provide conduit clearance for applications with up to three inches of insulation.
- Oblique sided box and cover allow easy access for wiring.
- 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.
- 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 with signal light installed (LED style)
- 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**

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**Spare Grommets**

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<td>GRO Blank</td>
<td>385019</td>
</tr>
<tr>
<td>GSR SR Self Regulating type</td>
<td>389714</td>
</tr>
<tr>
<td>GRCW Constant Wattage type</td>
<td>389722</td>
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</table>
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.

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.

RTES — End Seal Kit

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

Ordering Information — RTES

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Spare Grommets

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

<table>
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<tr>
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<td>SRF-C, SRF-CR, SRL-C, SRL-CR, SRL-CT, CWM-C, CWM-CT, SRL-C, SRL-CT</td>
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<td>CWM-C, CT, SRP-C, SRP-CT</td>
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<tr>
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To Order — Refer to the DL & EL General Application Accessories in this section.
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

**End Seal Kit (for SRL cable)**
RT-RES (383574)
(5) 1/2" diameter heat shrink caps

**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

**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.
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.

**Fiberglas® 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**

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To Order — Specify model, PCN and quantity.

**Rolls Needed per 100' of Pipe**

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