Series Connection System
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

Description
The DL Series Connection System for Chromalox heating cable products represents the state of the art in heat tracing accessories. 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:
- Freeze Protection
- Hydrocarbon and Chemical Product Piping
- Process Temperature Maintenance
- Fluid Flow and Viscosity Maintenance

Approval*
UL Listed for use in ordinary areas
CSA Certified for use in ordinary areas and:
Class I, Div. 2, Groups A, B, C, D
Class II, Div. 2, Groups F, G
Class III, Div. 2 areas
* Depends on specific model

Features
- Molded of durable plastic material (Ryton®, PPS)
- High service temperature
- Corrosion resistant
- 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.
- UL, FM, CSA approved for most models, consult specific product information.

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End Seal Fitting

Model RTES End Seal Fitting is a NEMA 4X rated enclosure designed to terminate all Chromalox Rapid Trace Heating Cables. This model provides water resistant cable entry for one cable, enclosure support and a water resistant 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.

* Also available with signal light option

Exterior Construction

A 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 (not included).
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-inch (20 mm) conduit hub.
E Oblique sided box and cover allow easy access for wiring.

A 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 (Pipe strap not included).
C Heavy duty support legs give stable pipe mounting and provide conduit clearance for applications with up to three inches of insulation.
D One inch wide strapping channel for secure mounting

A Cable entry
B Three inch diameter curved mounting surface
C Stainless steel hardware
D One inch wide strapping channel for secure mounting

Available Models

Power Connection Box* RTPC
Model 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 water resistant cable entry for up to three cables, enclosure support, terminal block and a water resistant, corrosion resistant wiring enclosure with a 3/4" opening to accept a conduit hub (CCH-2 or equal). A pipe strap (Chromalox PS Series or equal) is required to attach this model to a pipe.

* Also available with signal light option

Splice & Tee Box* RTST
Model 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 water resistant cable entry (for two cables for a splice or three cables for a tee), enclosure support, terminal block and a water resistant, corrosion resistant wiring enclosure. A pipe strap (Chromalox PS Series or equal) is required to attach this model to a pipe.

* Also available with signal light option

Power Connection

Splice & Tee

End Seal
**Interior Construction**

**Power Connection Box**

- **A** Cable grommet provides watertight seal between base and box.
- **B** Three position terminal block for easy wiring
- **C** Power wiring entry. Conduit hub not included
- **D** Gasket provides water resistant seal between box and lid. It is affixed to the lid and captures the mounting hardware.

**Splice and Tee Box**

- **A** Cable grommets provide water resistant seal between base and box.
- **B** Three position terminal block for easy wiring
- **C** Gasket provides water resistant seal between box and lid. It is affixed to the lid and captures the mounting hardware.

**End Seal Fitting**

- **A** One-half inch radius curved mounting surface
- **B** End cap
- **C** Cable grommet provides water resistant seal between end cap and pressure plate
- **D** Pressure plate
- **E** Mounting feet for installation on flat surfaces
DL Series Connection System Accessories

Ordering Information

Power Connection Kit
RTPC
389554
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

Splice & Tee Kit
RTST
389562
1 molded junction box consisting of:
  1 base
  1 box
  1 lid
  1 three position terminal block*
  1 mounting screw for terminal block

End Seal Kit
RTES
389570
1 end cap
1 pressure plate

Power Connection Kit w/ Signal Light**
RTPC-SL1  120V  389626
RTPC-SL2  208-240V  389634
RTPC-SL3  277V  389642
1 molded junction box consisting of:
  1 base
  1 box w/conduit opening
  1 lid w/LED signal light installed
  1 three position terminal block*
  1 mounting screw for terminal block

Splice & Tee Kit w/Signal Light**
RTST-SL1  120V  389650
RTST-SL2  208-240V  389669
RTST-SL3  277V  389677
1 molded junction box consisting of:
  1 base
  1 box
  1 lid w/LED signal light installed
  1 three position terminal block*
  1 mounting screw for terminal block

*  Four position terminal block required for monitor wire cables. Contact factory for details.

** Signal light option approved for ordinary areas only. For signal lights in hazardous locations, please see U-Series or HL Series Data Sheets
Ordering Information (Cont.)

Metal Pipe Strap Kit Attachments
PS-1
382352
1/2” to 3/4” pipes

Metal Pipe Strap Kit Attachments
PS-3
382360
1” to 3 1/2” pipes

Metal Pipe Strap Kit Attachments
PS-10
382379
2 1/2” to 9” pipes with RTPC and RTST kits. Interlock straps for larger diameter pipes.

Fiberglass Tape Cable Attachments
FT-3
389941
66-foot roll glass cloth tape with pressure-sensitive thermosetting adhesive 3/8” wide. 310°F (155°C) rating. Strap at one foot intervals at minimum application temperatures of 40°F (5°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).

Caution Labels
CL-1
382424
(5) Electric heat tracing caution labels; weather resistant
Ordering Information (Cont.)

Conduit Hub Cable Attachments
CCH-2 385650
Corrosion Resistant for 3/4" Conduit
Fits opening in RTPC. Includes a
ground connector.

Mounting Plate Kit Attachments
MP-1 385780
For installing RTPC and RTST kits on
flat surfaces. Kit includes:
1 mounting plate
1 lock washer
1 bolt
1 washer
1 nut

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 HSRL, SRL, SRL and
Thermwire products.

Replacement Blades
14 awg BL-1 393529
Blades for use with the Cable
Stripping Tool. 14 awg blades for
HSRM and SRM/E products.
16 awg BL-2 393537
Blades for use with the Cable
Stripping Tool. 16 awg blades for
HSRL and SRL, SRF and Thermwire
products.
20 awg BL-3 393545
Blades for use with the Cable
Stripping Tool. 20awg blades for
SRR, SRS and STW products.