



PRODUCT SPECIFICATIONS

# Terminator™

## HEATING CABLE TERMINATION KITS

### APPLICATION

Power Connection, In-Line/T-Splice, End Termination Lighted Power Connection/End Termination. Terminator nonmetallic termination kits are designed specifically for rapid, trouble-free installation of Thermon self-regulating, power-limiting, and series polymer insulated heating cables. The integral design of these nonmetallic kits combines the pipe-mounted fitting, heating cable grommet and cable strain relief into a single assembly. Screws for securing the covers of the kits have been eliminated to simplify cover installation while providing additional security (a tool is required to remove the cover after installation).

Terminator kits are approved for use in ordinary (nonclassified) areas and hazardous (classified) areas.

PETK Circuit fabrication kits are required for use with all Thermon Parallel Heating Cables Connection Kits. Kits for termination of SX cables include a power connection boot, end cap, RTV adhesive and a caution label. Kits for termination of HPT and FP cables also include tape strip and a distinct grommet.

SCTK Splice connection termination kits are required when preparing outside-the-insulation splices with all Thermon Parallel Heating Cables Connection Kits. Kits for terminations of SX cables include 2 splice connection boots, assorted wire nuts and RTV adhesive. Kits for termination of HPT and FP cables also include a distinct grommet.

### RATINGS

Enclosure rating .....NEMA 4X, IP66  
Maximum pipe exposure temperature .....250°C (482°F)  
Minimum installation temperature ..... -60°C (-76°F)  
Oper. ambient temp.2..... -60°C (-76°F) to +55°C (+131°F)  
Maximum voltage rating..... 600 Vac

#### Notes

1. Electrostatic charge resistant glass reinforced polymer standard on ZP, ZL, ZS/ZE kits.
2. DE-B and ZE-B operating ambient temperature is -60°C (-76°F) to 45°C (+113°F) with T6 T-rating. Higher ambients are possible, contact Thermon for corresponding T-rating.

### PRODUCT REFERENCE LEGEND

**"D" Kits** Division 2 and Zone 2 Areas

**"Z" Kits** Zone 1 Areas

Kits for BSX, RSX, HTSX, KSX, VSX-HT, USX, HPT & FP Cables

**DP or ZP** = Power Connection Kit

**DL or ZL** = Lighted Power Connection/End Termination Kit

**DS/DE or ZS/ZE** = In-Line Splice or End Termination Kit

**DE-B or ZE-B** = LED End of Circuit Light Kit

Kits for TEK and HTEK Cables

**DP-M or ZP-M** = Power Connection Kit

Kits for MIQ Cables

**ZP-MI** = Power Connection Kit



### CONSTRUCTION

- 1 Junction box, glass-reinforced polymer<sup>1</sup> with DIN rail mounted terminal blocks
- 2 Pipe-mount expediter, glass-reinforced polymer<sup>1</sup>
- 3 Stainless steel pipe attachment band
- 4 Splice cap, glass-reinforced polymer<sup>1</sup>

### CERTIFICATIONS/APPROVALS

Terminator kits have the following approvals when used in conjunction with Thermon heating cables:



FM Approvals  
Ordinary Locations  
Hazardous (Classified) Locations  
Class I, Division 2, Groups A, B, C and D  
Class II, Division 2, Groups F and G  
Class III, Divisions 1 and 2  
Class I, Zone 2, Group IIC  
Class I, Zone 1, AEx e II (ZP, ZL, ZS/ZE, ZE-B only)



Underwriters Laboratories Inc.  
Ordinary Locations  
Hazardous (Classified) Locations  
Class I, Division 2, Groups A, B, C and D  
Class II, Division 2, Groups F and G  
Class III, Divisions 1 and 2  
Class I, Zone 2, Group IIC  
Class I, Zone 1, AEx e II (ZP, ZL, ZS/ZE, ZE-B only)



Canadian Standards Association  
Ordinary Locations  
Hazardous (Classified) Locations  
Class I, Division 2, Groups A, B, C and D  
Class II, Division 2, Groups F and G  
Ex e II (ZP, ZL, ZS/ZE, ZE-B only)



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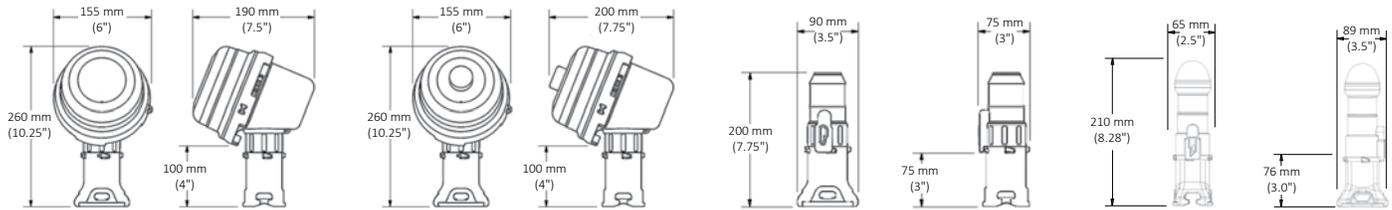
## HEATING CABLE TERMINATION KITS

**Terminator DP and ZP** are designed to fabricate power connections, in-line/T-splice connections or for making end terminations. Electrical connections are made in terminal blocks utilizing nickel-plated copper terminals to ensure corrosion-free electrical integrity.

**Terminator DL and ZL** are designed to provide visual indication of an energized heating circuit. The kit may be utilized as a power connection or an end termination kit. Electrical connections are made in terminal blocks utilizing nickel-plated copper terminals to ensure corrosion-free electrical integrity.

**Terminator DS/DE and ZS/ZE** are designed to fabricate accessible outside-the-insulation in line splices or end terminations of Thermon Heating Cables. Electrical connections are made using wire fasteners. (For applications requiring terminations to be made with terminal block connections, the Terminator DP or ZP kit may be used.)

**Terminator DE-B and ZE-B** are designed to provide visual indication of an energized heating circuit. The DE-B and ZE-B utilize a high intensity green LED assembly for superior day or night visibility. Electrical connections are made using wire fasteners. (For applications requiring terminations to be made with terminal block connections, the Terminator DL or ZL kit may be used.)



	DP, ZP, ZP-MI	DP-M ZP-M	DL, ZL	DS/DE ZS/ZE	DE-B, ZE-B
Enclosure Ratings	NEMA 4X, IP66	NEMA 4X, IP66	NEMA 4X, IP66	NEMA 4X, IP66	NEMA 4X, IP66
Max. Pipe Exposure Temperature	250°C (482°F)	250°C (482°F)	250°C (482°F)	250°C (482°F)	250°C (482°F)
Min. Installation Temperature	-60°C (-76°F)	-60°C (-76°F)	-60°C (-76°F)	-60°C (-76°F)	-60°C (-76°F)
Operating Ambient Temperature	-60°C to +55°C (-76°F to +131°F)	-60°C to +55°C (-76°F to +131°F)	-60°C to +55°C (-76°F to +131°F)	-60°C to +55°C (-76°F to +131°F)	-60°C to +55°C <sup>2</sup> (-76°F to +131°F) <sup>2</sup>
Electrical Connection	Terminal Blocks <sup>3</sup>	Terminal Blocks <sup>4</sup>	Terminal Blocks <sup>6</sup>	Wire Fasteners	Wire Fasteners
Number of Power Connections	1 to 3 Cables	1 Cable	1 Cable <sup>7</sup>	n/a	n/a
Number of In-Line/T-Splices	2 to 3 Cables	2 Cables	n/a	2 Cables	n/a
Number of End Terminations	1 Cable (DP) 1 to 2 Cables (ZP) ZP-MI (NA)	1 Cable	1 Cable	1 to 2 Cables	1 Cable
Maximum Conductor Size <sup>1</sup>	16 mm <sup>2</sup> (6 AWG)	25 mm <sup>2</sup> (4 AWG)	16 mm <sup>2</sup> (6 AWG)	n/a	n/a
Maximum Voltage Rating	600 Vac	600 Vac	n/a	600 Vac	n/a
Maximum Rated Current <sup>1</sup>	50 Amps	85 Amps	50 Amps	n/a	n/a
T-rating, Ta <sup>2</sup> = 40°C (104°F)	T4 @ 46 Amps T6 @ 22 Amps	T4 @ 11.5 W/ft <sup>5</sup> T6 @ 5.2 W/ft <sup>5</sup>	T4 @ 46 Amps T6 @ 22 Amps	T4 @ 46 Amps T6 @ 22 Amps	T6
Indicating Lamp Service Life Rating	n/a	n/a	100,000 Hours	n/a	100,000 Hours
Indicating Lamp Operating Voltage Range	n/a	n/a	Up to 264 Vac	n/a	100 to 277 Vac

- Notes**
1. Alternate terminal block configurations are available, contact factory.
  2. Higher ambient temperatures are possible. Consult Thermon for corresponding T-rating.
  3. Terminator DP kit includes three terminal blocks (L1, L2 and G). Terminator ZP kit includes four line terminal blocks (two jumpered pairs, L1 and L2) and two ground terminal blocks (G).
  4. Terminator DP-M kit includes four terminal blocks (L1, L2, L3 and G). Terminator ZP-M kit includes three line terminal blocks (L1, L2 and L3) and one ground terminal block (G).
  5. T-Rating based on individual cable power output.
  6. Terminator DL kit includes three terminal blocks (L1, L2 and G). Terminator ZL kit includes four line terminal blocks (two jumpered pairs, L1 and L2) and one ground terminal block (G).
  7. Terminator DL kit allows up to 2 cables to be connected to power; additional TBX boots may be ordered separately.