



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 ratingNEMA 4X, IP66
 Maximum pipe exposure temperature482°F (250°C)
 Minimum installation temperature -76°F (-60°C)
 Oper. ambient temp.² -76°F (-60°C) to +131°F (+55°C)
 Maximum voltage rating..... 600 Vac

Note

1. Electrostatic charge resistant glass reinforced polymer standard on ZP, ZL, ZS/ZE kits.
2. DE-B and ZE-B operating ambient temperature is -76°F (-60°C) to +113°F (45°C) 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, TSX, VSX, 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 polymer¹ with DIN rail mounted terminal blocks
- 2 Pipe-mount expediter, glass-reinforced polymer¹
- 3 Stainless steel pipe attachment band
- 4 Splice cap, glass-reinforced polymer¹

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)



II 2 G Ex eb IIC T4-T6 FM 10ATEX0058X II 2 D Ex tb IIIC
 T135°C-T85°C (ZP, ZP-MI, ZL, ZS/ZE, ZE-B only)



International Electrotechnical Commission
 IEC Certification Scheme for Explosive Atmospheres
 FMG 10.0022X (ZP, ZP-MI, ZL, ZS/ZE, ZE-B only)

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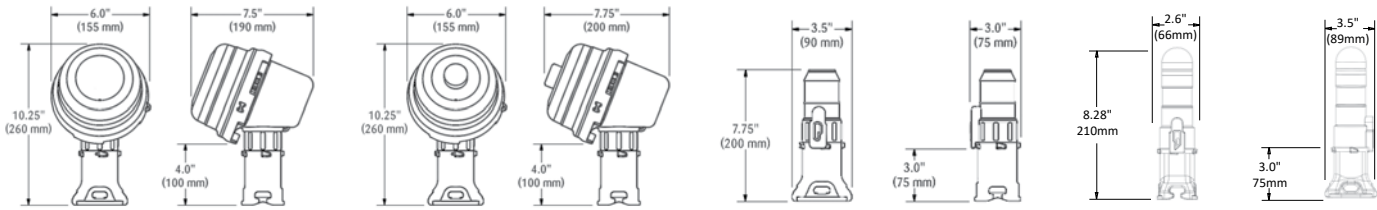
HEATING CABLE TERMINATION KITS

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	482°F (250°C)	482°F (250°C)	482°F (250°C)	482°F (250°C)	482°F (250°C)
Min. Installation Temperature	-76°F (-60°C)	-76°F (-60°C)	-76°F (-60°C)	-76°F (-60°C)	-76°F (-60°C)
Operating Ambient Temperature	-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)	-76°F to +113°F ² (-60°C to +45°C)
Electrical Connection	Terminal Blocks ³	Terminal Blocks ⁴	Terminal Blocks ⁶	Wire Fasteners	Wire Fasteners
Number of Power Connections	1 to 3 Cables	1 Cable	1 Cable ⁷	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 ¹	6 AWG (16 mm ²)	4 AWG (25 mm ²)	6 AWG (16 mm ²)	n/a	n/a
Maximum Voltage Rating	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac
Maximum Rated Current ¹	50 Amps	85 Amps	50 Amps	n/a	n/a
T-rating, Ta ² = 104°F (40°C)	T4 @ 46 Amps T6 @ 22 Amps	T4 @ 11.5 W/ft ⁵ T6 @ 5.2 W/ft ⁵	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	12 to 270 Vac ⁸	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 3 cables to be connected to power; additional TBX boots may be ordered separately.
8. Higher voltages (up to 500 Vac) are available, contact Thermon.