



# PRODUCT DATASHEET

# SYSTEMS ACCESSORIES

## FLX™ FREEZE PROTECTION

### TRACEPLUS™ NONMETALLIC KITS

The following accessories were developed specifically for freeze protection systems and are intended for use with FLX self-regulating heat trace.



**PCA-COM** circuit fabrication kit is designed to fabricate an FLX circuit with one power connection boot and one end cap. Up to three FLX heat tracers can enter a PCA-COM kit when additional connection boots (TBX-3L) and end caps (ET-6) are used.

The PCA-COM kit components include:

- Nonmetallic junction box, corrosion resistant NEMA-4X, with removable gasketed cover (JB-K)
- Pipe-mounted junction box support
- Heat trace grommet
- Power connection boot (TBX-3L)
- End caps (one ET-6 for FLX)
- RTV adhesive
- Wire fasteners
- Installation instructions



**PCS-COM** re-enterable in-line or T-splice kit is designed to fabricate outside the insulation splices of FLX. Each splice kit includes three heat trace connection boots and the end caps needed to complete a T-splice.

The PCS-COM kit components include:

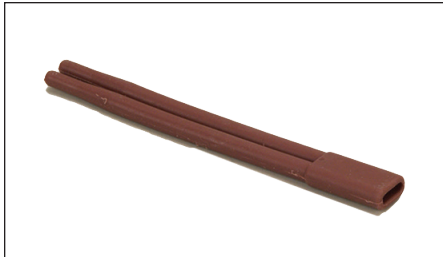
- Pipe-mounted expediter with splice cover
- Heat trace grommet
- 3 heat trace connection boots (TBX-3L)
- End caps (two ET-6 for FLX)
- RTV adhesive
- Wire fasteners
- Installation instructions

### CABLE END TERMINATIONS, ATTACHMENT TAPE AND CAUTION LABELS



**ET-6C** end termination kits are designed to properly terminate the end of an FLX heating circuit (away from power).

Kit includes end cap, RTV adhesive, caution label and termination instructions.



**TBX-3L** power connection boot is used to prepare additional heat trace for connection to power through a PCA-COM kit.



**FT-1L** fixing tape is used for attaching the heat trace to piping every 30 cm (12") or as required by code or specification. FT-1L may also be used for attaching pipe mounted expeditors in circuit fabrication and splice kits. Tape is 13 mm (1/2") wide x 33 m (108') long.

Max. Exposure Temp.....93°C (200°F)

Min. Installation Temp.....5°C (40°F)



**CL** caution labels (vinyl-based peel and stick) should be installed on the thermal insulation weather barrier in accordance with the CEC or as required by code or specification. Packaged as 25/bag.

### CERTIFICATIONS/APPROVALS



Approvals apply when used with Thermon electric heat tracing.



## CONTROL THERMOSTATS, CONTROL PANEL AND ALUMINUM TAPE



**B4X-15140**...adjustable ambient sensing thermostat is designed for controlling freeze protection of pipes, vessels and equipment. Thermostat has an adjustable range from -9° to 60°C (15° to 140°F) and can be used to control a single-phase heating cable circuit or to control the coil of a contactor to switch high current and/or voltages for freeze protection heat tracing circuits. Enclosure is NEMA 4X epoxy polyamide coated die-cast aluminum. Thermostat is rated for 125/250/480 Vac with a switch rating of 22 A.



**N4X-40**...line-sensing thermostat is snap-acting "open-on-rise" and preset at 5°C (40°F). Thermostat is rated for 125/250/480 Vac with a switch rating of 22 A and is housed in a NEMA 4X polycarbonate enclosure that is predrilled for connection to 3/4" conduit fitting. Thermostat has tinned copper bulb and capillary.



**PDMP**...power distribution and monitoring panel is available for one to four circuits with voltage ratings of 120/240, 277 Vac. Panel includes circuit breaker(s) with 30 mA ground-fault protection<sup>1</sup>, contactor(s)<sup>2</sup>, indicating lights, and hand/off/auto switch (optional alarms are available). The corrosion-resistant NEMA 4X nonmetallic junction box is hinged and lockable. To meet the specific requirements of an application, panel can be custom designed, including circuit requirements, enclosure type, control and monitoring capabilities and specific agency approvals. Contact Thermon for complete information.

### Notes

1. The Canadian Electrical Code requires ground-fault protection of equipment for each branch circuit supplying electric heating equipment.
2. 120 Vac coil to be controlled by thermostat or electronic control.



**AL-20L**...aluminum tape for securing cable on non-metallic pipe. Allow one foot of tape for each foot of heating cable. Tape is 51 mm (2") wide x 46 m (150') long.