

## **DANFOSS TX CONSTANT WATTAGE HEATING CABLE SPECIFICATION FOR ELECTRIC FLOOR HEATING**

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### **1.0 GENERAL**

Supply and Install a complete system comprised of heating cables, accessories and controls.

### **2.0 MATERIAL**

- 2.1 Shall be Danfoss TX dual conductor heating cable.
- 2.2 Conductor: Copper or copper alloy with tin nickel coating.
- 2.3 Insulation: FEP DuPont with an average thickness not less than 0.25 mm and than layer of XLPE.
- 2.4 Shield: Tin coated drain wire combined with 0.050 mm aluminium foil coated with 0.012 mm PBT, 100% coverage.
- 2.5 Jacket: PVC with an average thickness not less than 0.75mm.
- 2.6 Shall include 10' cold lead, single point connection.
- 2.7 Rated temperature: 220°F (105°C), maximum voltage 600V ac, up to 9W/ft
- 2.8 Shall be approved to applicable UL and CSA standard.

### **3.0 SYSTEM CONTROLS**

- 3.1 The system temperature shall be controlled by Danfoss Thermostat with floor or air sensor or combination of both.
- 3.2 The thermostat shall incorporate an integral 5mA Class A Ground Fault Circuit Interrupter, temperature set-back option to reduce energy consumption and digital readout.
- 3.3 Shall be approved to applicable UL and CSA standard.

## **4.0 EXECUTION**

### 4.1 Installation

- a. System must be installed per manufacturer's recommendation using method described in installation guide.
- b. Place the heating mats , cables and sensor as per the installation guide.
- c. Inspect the cable and controls upon receiving the shipment. Note any damage and ensure materials received match the order and shipping documents

### 4.2 Tests

- a. Refer to the manufacturer's literature for requirements for testing and documenting cable resistance and insulation-to-ground readings.
- b. Take tests as outlined in the Installation Manual.
- c. If problems are discovered, consult the manufacturer.
- d. If unable to correct problems notify the Engineer before proceeding with installation.
- e. Keep record of all readings for inspection by the Engineer or for submittal to the manufacturer to ensure a valid warranty.

## **5.0 WARRANTY**

- 5.1 Manufacturer shall offer 10 years non-prorated warranty.