



# PRODUCT DATASHEET

## DLX™

### SELF-REGULATING HEAT TRACING

#### APPLICATION

DLX protects small and medium diameter pipes from rupture and leakage caused by freezing conditions in light industrial and commercial applications.

#### EASY TO INSTALL

Parallel circuitry allows DLX to be cut to suit any length required in the field. Flexible materials and small cross-section provide an excellent bending radius for wrapping around complex geometries.

#### ENERGY EFFICIENT

The heat output of DLX varies along the length of the traced equipment or surface, providing the optimal heating for colder or warmer spots. As the temperature drops, heat output increases. Conversely, when the temperature increases, heat output decreases

#### SAFE

DLX self-regulates to prevent overheating, even when overlapped. Trace heaters are certified for ordinary (non-classified) areas.

#### RELIABLE

Built with proven and proprietary compounding, extrusion, and cross-linking technology, DLX allows for continuous operation and extended life expectancy.

#### RATINGS

Available Watt densities .....10, 20 W/m (3,6 W/ft) at 10°C (50°F)

Nominal supply voltage <sup>1</sup> ..... 100-120 or 208-277 Vac

Maximum maintenance temperature... 65°C (149°F)

Maximum continuous exposure temperature

Power-off.....85°C (185°F)

Minimum installation temperature ..... -60°C (-76°F)

Minimum bend radius

@ -15°C (59°F) .....10 mm (3/8")

@ -60°C (-76°F).....32 mm (1-1/4")

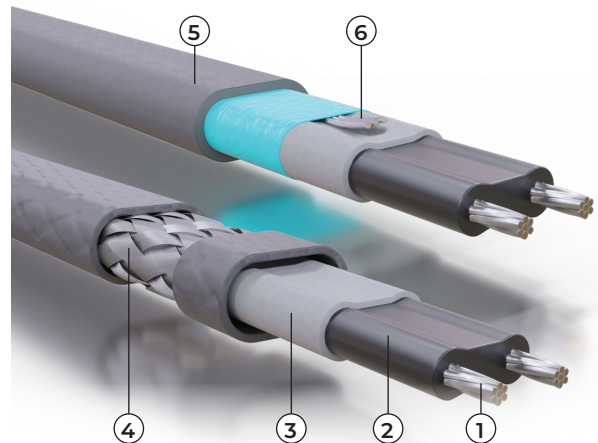
#### BASIC ACCESSORIES

Thermon offers system accessories designed specifically for rapid, trouble-free installation of Thermon heat tracing.

All trace heaters require a connection kit to comply with approval requirements. Information on accessories to complete a heater circuit installation can be found in the "Freeze Protection Systems Accessories" product specification sheet (Form CPD1017U).

#### Notes

- Trace heater may be energised at other voltages; contact Thermon for design assistance.
- Circuit breaker sizing and earth-fault protection should be based on applicable local codes. Earth-fault protection of equipment should be provided for each branch circuit supplying electric heating equipment. Contact Thermon for assistance with circuit breaker sizing.



#### CONSTRUCTION

- Nickel-plated copper bus wires 0.6 mm<sup>2</sup> (20 AWG)
- E-Beam cross-linked semiconductive heating matrix
- E-Beam cross-linked dielectric insulation
- Tinned copper braid
- Polyolefin overjacket provides additional protection to core, insulation, and braid where exposure to aqueous inorganic chemicals is expected.

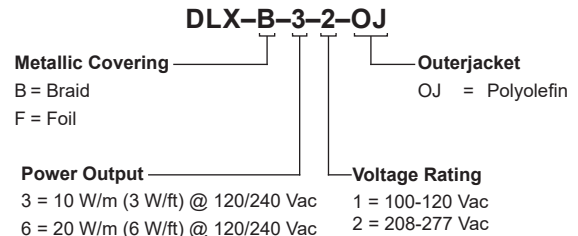
#### Options

- Foil and Drain wire configuration available with standard OJ as an economical alternative to braid.

#### CERTIFICATIONS/APPROVALS



#### HOW TO SPECIFY



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**CIRCUIT BREAKER SIZING AND TYPE**

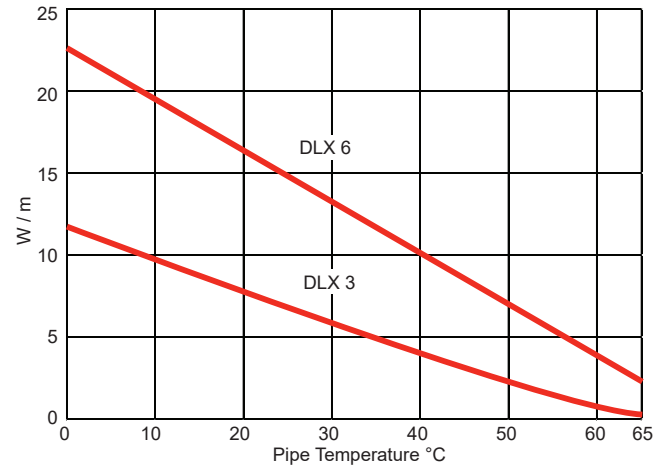
Maximum circuit lengths for various circuit breaker amperages are shown below. Circuit breaker sizing and ground-fault protection should be based on applicable local codes. For information on design and performance on other voltages, contact Thermon. Ground-fault protection of equipment should be provided for each branch circuit supplying electric heating equipment.

Type QOB/QO Circuit Breakers			
120 Vac Service Voltage		Max. Circuit Length vs. Breaker Size meters (feet)	
Product Type	Start-Up Temperature °C	20 A	
DLX 3-1	10	88	288
	0	78	255
	-20	77	253
	-40	66	216
DLX 6-1	10	62	204
	0	58	190
	-20	52	170
	-40	46	150

**POWER OUTPUT CURVES**

The power outputs shown apply to trace heater installed on insulated metallic pipe (using the procedures outlined in IEEE 515.1) at the service voltages stated below. For use on other service voltages, contact Thermon.

Product Type 120 Vac Nominal	Product Type 240 Vac Nominal	Power Output at 10°C (50°F) W/m
DLX 3-1	DLX 3-2	10
DLX 6-1	DLX 6-2	20



Type QOB/QO Circuit Breakers							
240 Vac Service Voltage		Max. Circuit Length <sup>3</sup> vs. Breaker Size meters (feet)					
Catalog Number	Start-Up Temperature °C	20 A		30 A		40 A	
		(m)	(ft)	(m)	(ft)	(m)	(ft)
DLX 3-2	10	148	486	148	486	148	486
	0	135	444	135	444	135	444
	-20	135	444	135	444	135	444
	-40	133	435	135	444	135	444
DLX 6-2	10	115	378	115	378	115	378
	0	108	355	108	355	108	355
	-20	104	342	108	355	108	355
	-40	91	298	108	355	108	355

**Notes:**

- For more precise power output values as a function of pipe temperature, refer to CompuTrace®.
- Based on the trip current characteristic of Type QOB or Type QO equipment protection devices. For devices with other trip current characteristics, contact Thermon.
- The maximum circuit length is for one continuous length of trace heater, not the sum of segments of cable. Refer to CompuTrace® design software or contact Thermon for current loading of segments.