



# PRODUCT DATASHEET

# REFRIGERATION APPLICATIONS

## SELF-REGULATING HEAT TRACING

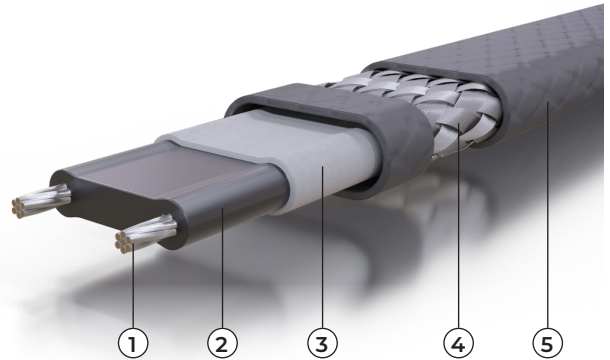
### APPLICATION: FREEZE PROTECTION

FLX self regulating heating cables are designed to provide freeze protection for a variety of refrigeration and freezer applications.

These cut to length heater cables are available in power outputs of 16, 33 and 49 watts per meter.

Operating voltage is 240 VAC.

The narrow profile of FLX cables provide the flexibility required for freezer door applications.



### Rugged and Reliable

FLX self-regulating cables are protected by a tinned copper braid to provide grounding and additional mechanical protection for the cable. An optional outer jacket is available if additional mechanical protection is required.

Heat tracing users expect quality products and services from a reputable manufacturer. Thermon exceeds these expectations by operating under the ISO 9001 standard for quality.

### Easy to Design

FLX are self regulating, polyolefin insulated cables which vary output in relation to temperature. FLX cables are used primarily for freeze protection of freezer door frames, condensate drains and general freeze protection. FLX's electrical configuration lends itself to field fabrication of each heat tracing circuit. Field dimensions of the erected piping are not required.

### Easy to Install

Kits for power connection, end termination and splicing are designed for quick and easy installation.

### CHARACTERISTICS

- 1 16 AWG Nickel-Plated Copper Bus Wire
- 2 Radiation Cross-Linked Polyolefin Heating Core
- 3 Radiation Cross-Linked Polyolefin Primary Dielectric Insulation
- 4 14 AWG (equivalent size) Tinned Copper Metallic Braid
- 5 Polyolefin Outer jacket

### RATINGS

Bus wire .....	nickel-plated copper
Metallic braid.....	tinned copper
Outer jacket .....	-OJ, polyolefin (optional)
Minimum bend radius @ -15°C.....	10 mm
Supply voltage.....	240 Vac
Circuit protection .....	30 mA ground-fault protection required
Maximum continuous exposure temperature .....	power-on: 65°C; power-off: 85°C

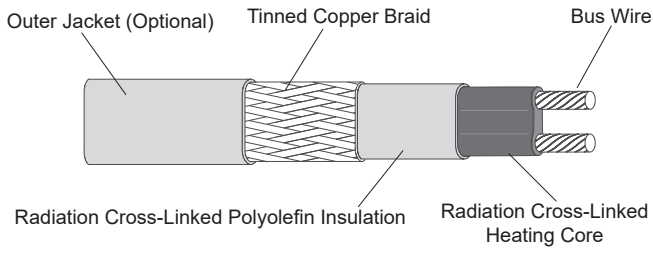
### CERTIFICATIONS/APPROVALS



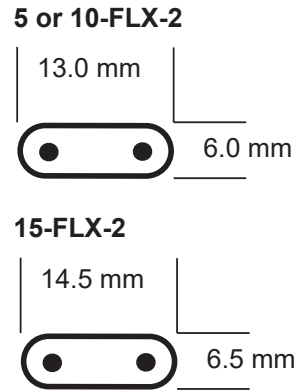


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**REFRIGERATION APPLICATIONS**  
 SELF-REGULATING HEAT TRACING

**CHARACTERISTICS**



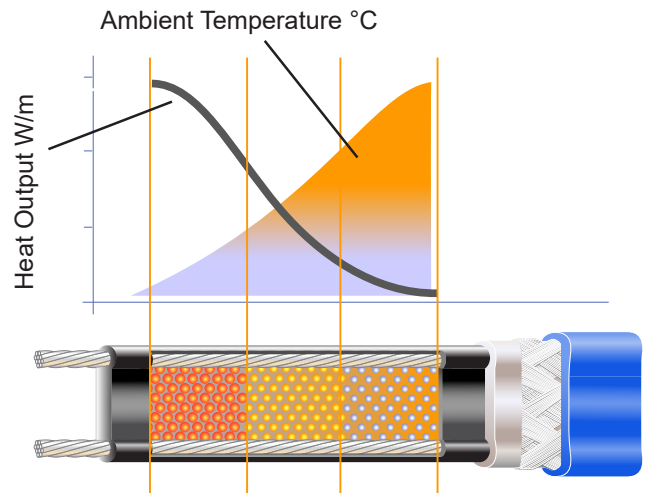
**NOMINAL OUTSIDE DIMENSIONS**



**Note** . . . Dimensions relate to the outer jacket option on the cable. Subtract 1 mm for braided only cables

**CIRCUIT BREAKER SIZING AND TYPE**

240 Vac Service Voltage		Max. Circuit Length vs. Breaker Size		
Catalog Number	Start-Up Temp. °C	20 A	30 A m	40 A
5-FLX-2	-18	119.8	179.8	179.8
	10	146.0	182.6	182.6
10-FLX-2	-18	68.6	103.0	121.6
	10	85.3	121.6	121.6
15-FLX-2	10	72	114	131
	-18	52	82	117
	-29	47	73	104
	-40	43	67	95



**Self-Regulating Heat Output**

The self-regulating heat output of the cables varies in response to the surrounding temperature. Variations in the ambient temperature are automatically compensated for along the entire length of a heat traced pipe.