

FLX™ Self-Regulating Heating Cable

Product Specifications

Application: Freeze Protection

FLX self-regulating heating cables are designed to provide freeze protection and temperature maintenance to metallic and nonmetallic pipes, tanks and equipment. FLX heating cables are rated for heat outputs of 3, 5, 8 and 10 watts/foot at 50° F (10, 16, 26 and 33 watts/meter at 10°C) when powered at 110 to 120 Vac or 208 to 277 Vac. FLX is a proven, simple, practical solution for both metal and plastic pipes.

Rugged and Reliable . . .

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

Whether the application is a small project or a complex network of piping and equipment, designing an electric heat traced freeze protection system is easy with FLX self-regulating cables. The step-by-step design guide leads the reader through determining the heating requirements and number of circuits required to establish a bill of materials.

With parallel circuitry, FLX cables do not require piping dimensions and can be cut to length in the field. Heat tracing circuits for field-routed piping can be quickly and easily designed on site.



Easy to Install . . .

FLX is installed directly on metallic or nonmetallic piping under conventional thermal insulation with ordinary hand tools. Kits for power connection, end termination and splicing, plus other accessories, are designed for quick and easy installation.

Simply pull FLX from the supply reel, install directly on the pipe and complete circuit fabrication. Tee splices may be installed anywhere along the circuit to match the layout of the piping.



THERMON . . . The Heat Tracing Specialists®

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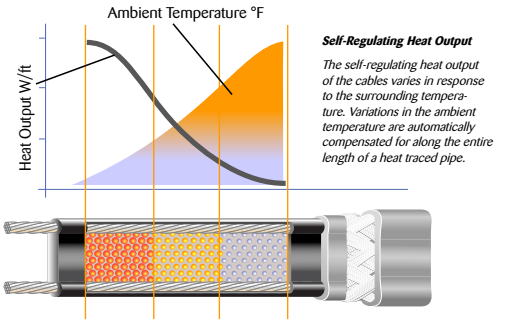
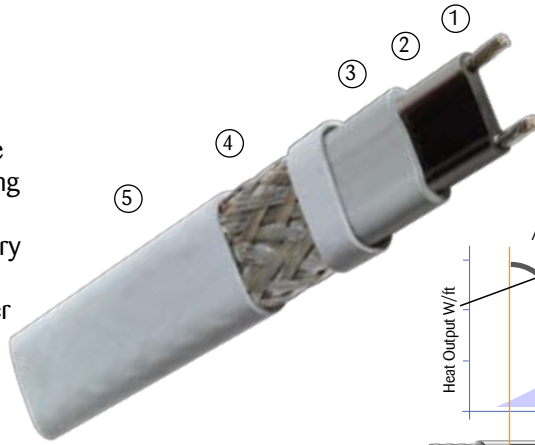
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Characteristics . . .

- 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 . . .

- 0.38" @ 5°F, 1.25" @ -76°F Minimum Bend Radius
- 30 mA Ground-Fault Protection Required¹
- 110-120 or 208-277 Vac Supply Voltage
- Maximum Continuous Exposure Temperature
 - Power On 150°F (65°C)
 - Power Off 185°F (85°C)

Cable Selection . . .

120 Vac Service Voltage		Max. Circuit Length ³ vs. Breaker Size ft (m)		
Catalog Number	Start-Up Temperature °F (°C)	20A	30A	40A
3-FLX-1	0 (-18)	324 (98.0)	348 (106.0)	348 (106.0)
	50 (10)	377 (114.0)	377 (114.4)	377 (114.0)
5-FLX-1	0 (-18)	207 (63.1)	299 (91.1)	299 (91.1)
	50 (10)	239 (72.8)	299 (91.1)	299 (91.1)
8-FLX-1	0 (-18)	150 (45.7)	226 (68.9)	239 (72.8)
	50 (10)	191 (58.2)	239 (72.8)	239 (72.8)
10-FLX-1	0 (-18)	112 (34.1)	169 (51.5)	199 (60.7)
	50 (10)	159 (48.5)	199 (60.7)	199 (60.7)

208-277 Vac Service Voltage		Max. Circuit Length ³ vs. Breaker Size ft (m)		
Catalog Number	Start-Up Temperature °F (°C)	20A	30A	40A
3-FLX-2	0 (-18)	649 (197.0)	712 (217.0)	712 (217.0)
	50 (10)	737 (224.0)	737 (224.0)	737 (224.0)
5-FLX-2	0 (-18)	393 (119.8)	590 (179.8)	590 (179.8)
	50 (10)	479 (146.0)	599 (182.6)	599 (182.6)
8-FLX-2	0 (-18)	284 (86.6)	427 (130.1)	479 (146.0)
	50 (10)	383 (116.7)	479 (146.0)	479 (146.0)
10-FLX-2	0 (-18)	225 (68.6)	338 (103.0)	399 (121.6)
	50 (10)	280 (85.3)	399 (121.6)	399 (121.6)

Notes . . .

1. The National Electrical Code and the Canadian Electrical Code require ground-fault protection of equipment for each branch circuit supplying electric heating equipment.
2. Power outputs are based on 120/240 Vac operating voltage under conditions shown.
3. Circuit lengths are based on start-up at temperatures shown.

Certifications/Approvals . . .



Power Output Curves² . . .

