STW51 THERMWIRE PRE-TERMINATED HEATING CABLE

PRODUCT OVERVIEW



Chromalox® Thermwire Pre-assembled cables provide safe, reliable freeze protection for light commercial and residential piping. These products are provided with factory terminated 3 ft. (0.9m) cord set/plug and end seal for a complete, easy to install heat trace system for freeze protection of metal and plastic pipes up to 2.5 in. (63.5 mm) diameter. Power output is 6 w/ft @ 40°F (19.7 (w/m @ 4.4°C) and is equipped with a grounding braid for code compliance, and a UV stabilized polyolefin jacket to protect against sun damage and moisture ingress. Thermwire pre-assembled cables are third party tested and approved for ordinary area locations.

DESCRIPTION

The heating cable consists of two (2) 20 AWG nickel-plated copper bus wires embedded in a self-regulating semiconductive polymeric core matrix that controls power output so that the cable can be used directly on plastic or metallic pipes. A water-resistant polyolefin jacket electrically insulates the matrix and bus wires and provides resistance to water and some inorganic chemical solutions. A tinned copper braid covering serves added mechanical protection and positive ground path.

WARNING — A ground fault protection device is required by Chromalox, agency certifications, and NEC to minimize the danger of fire if the heating cable is damaged or improperly installed. A minimum trip level of 30 mA is recommended to minimize nuisance tripping.

APPLICATION

Trace Surface Type ..... Metal and Plastic

Chemical Resistance ..... Exposure to aqueous solutions of inorganic compounds

Exposure to liquids, organic chemicals, acids, or bases

VOLTAGE SUPPLY

120 Vac

TEMPERATURE RATING

Maximum Maintenance Temperature..... 90°F (32°C)

Minimum Installation Temperature..... -40°F (-40°C)

APPROVALS

- Ordinary Areas
- Ordinary Areas

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CABLE SELECTION BY PIPE LENGTH

Cable Selection - Metals Pipes, Plastic Pipes @ 50°F (10°C)

Pipe Length ft (m)	Pipe Diameter, in (mm) 0.5 (12.4)	1.0 (25.4)	1.5 (38)	2.0 (50.8)	2.5 (63.5)
3 (0.9)	A, A	A, A	A, A	A, A	A, A
6 (1.8)	A, A	A, B	A, B	A, B	B, C
9 (2.7)	B, B	B, B	B, C	B, C	B, D
12 (3.7)	C, B	B, C	B, C	B, D	C, D
15 (4.6)	C, C	C, C	C, D	C, E	C, E
18 (5.5)	D, C	C, D	C, D	C, E	D, E
21 (6.4)	D, D	D, D	D, E	D, E	E, E
24 (7.3)	E, D	D, E	E, E	E, E	E, F
27 (8.2)	E, E	E, E	E, E	E, E	E, F
30 (9.1)	E, E	E, E	E, E	E, F	E, F
40 (12.2)	E, E	E, E	E, F	E, F	E, F
50 (15.2)	E, E	E, E	E, F	G, F	G, F
100 (30.5)	G, F	G, F	G, G	G, G	G, G

Note: Charts are based on minimum ambient of 0°F (-18°C) and 1/2" (12.7 mm) of insulation. For minimum ambient of -20°F (-29°C) increase insulation thickness to 1" (25.4 mm).

PRODUCT CHARACTERISTICS

Maximum Bend Radius, in. (mm) ..... 1.125 in. (28.5)

Bus Wire Size ..... 20 AWG

Heating Cable Dimensions WxH, in. (mm) ..... 0.39 x 0.25 (9.9 x 6.4)

ORDERING INFORMATION

Model	Letter	Length ft (m)	Weight lbs (kg)	Package Size in (mm)	PCN
STW51-6P	A	6 (1.8)	1 (0.5)	6x3x17 152x76x432	393369
STW51-12P	B	12 (3.6)	1.5 (0.7)	6x3x17 152x76x432	393377
STW51-18P	C	18 (5.5)	2.0 (0.9)	6x3x17 152x76x432	393385
STW51-24P	D	24 (7.3)	2.5 (1.1)	6x3x17 152x76x432	393393
STW51-50P	E	50 (15.2)	3.0 (1.4)	11x10x5 279x254x127	393406
STW51-75P	F	75 (22.9)	4.0 (1.8)	11x10x5 279x254x127	392258
STW51-100P	G	100 (30.5)	5.0 (2.3)	11x10x5 279x254x127	392366

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*press 1 to be directed to heat trace support

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