HWM HOT WATER MAINTENANCE HEATING CABLE

PRODUCT OVERVIEW

- **A** Twin 16 AWG Copper Bus Wires
- **B** Semiconductive Polymer Core Matrix
- **C** Flame-Retardant Jacket
- **D** Metallic Grounding Braid
- **E** Fluoropolymer Outer Jacket

Chromalox® HWM hot water maintenance cable employs self-regulating heat trace technology to provide commercial buildings with immediate hot water availability up to 140°F (60°C) without expensive recirculation systems. It is a simple, yet energy efficient solution that provides heat at the point where heat loss occurs because the self-regulating cable adjusts its output to independently respond to temperatures along its length. Energy savings may be derived from multiple sources, such as lower supply line heat loss, eliminated return line heat loss, no pump operating costs, and no supply water overheating costs. HWM heating cable is flexible and, due to the parallel construction of the self-regulating cable, it can be cut to any length (up to maximum circuit length), spliced, tee-branched and terminated on site. It can be single-overlapped without fear of burnout. It is for use on 120 and 208 to 277 V. Chromalox hot water maintenance cable is third-party tested and approved for use in ordinary areas.

DESCRIPTION

The heating cable consists of two (2) 16 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 flame- and water-resistant polyolefin jacket electrically insulates the matrix and bus wires. A tinned copper braid covering serves added mechanical protection and positive ground path. A fluoropolymer outer jacket protects the braid from chemical attack and mechanical abuse.

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 dam-aged 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 ..... Acids or bases

SUPPLY VOLTAGE

120 Vac

208 to 277 Vac

APPROVALS

- Ordinary Areas
- Type 4X, IP66 (with U Series Connection Kits)
- Type 4X (with DL Series Connection kits)

TEMPERATURE RATING

Maximum Maintenance Temperature..... 140°F (60°C)

Maximum Exposure Temperature, Power Off ..... 275°F (135°C)

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

DESIGN AND INSTALLATION

For proper design and installation, use ChromaTrace Heat Trace Project Design Software. Additional resources include the, Pipe Heat Tracing Design Worksheet (PJ305), and Chromalox Commercial Heating Cable Products Installation Instructions (PJ970). These resources are available on the Chromalox website, www.chromalox.com.

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INSULATION REQUIREMENT

Pipe Size	Required Fiberglass Insulation Thickness
0.5 in. (13 mm)	1 in. (25 mm)
0.75 in. (19 mm)	1 in. (25 mm)
1 in. (25 mm)	1 in. (25 mm)
1.25 in. (32 mm)	1 in. (25 mm)
1.5 in. (38 mm)	1.5 in. (38 mm)
2 in. (50 mm)	2 in. (50 mm)

CABLE SELECTION

Maintenance Temperature	120 V, 208V, 240 V, 277 V
105°F (41°C)	HWH 5
115°F (46°C) - 140F (60C)	HWH 10

MAXIMUM CIRCUIT LENGTHS

	Maximum Circuit Length in Feet (Meters) per Circuit Breaker		
Model	10 A	15 A	20 A
HWM 5-1	200 (61)	270 (82)	400 (122)
HWM 5-2	400 (122)	540 (165)	800 (244)
HWM 10-1	130 (40)	155 (47)	220 (67)
HWM 10-2	260 (9)	310 (95)	440 (134)

PRODUCT CHARACTERISTICS

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

Bus Wire Size..... 16 AWG

Heating Cable Dimensions WxH, in. (mm)..... 0.48 x 0.21 (12.1 x 5.3)

Weight, lb per 1,000 ft (kg per 300 m) 80 (36)

CONNECTION KITS

Chromalox has a complete line of accessories specifically designed for use with SRP cable. Use only Chromalox accessories to ensure the performance of the heat trace system, compliance with warranty, codes, and approval requirements.

	Accessories	U Series	DL Series
Power Connection	Heat trace to electrical service connection	UPC	RTPC
Splice & Tee		UMC	RTST
End Seal	For terminating cable	UES	RTES
Lighted End Seal		UESL	RTST-SL
Thermostat	Ambient air sensing thermostat	TXL	RTAS
	Line sensing mechanical thermostat	TXR	RTBC

ORDERING INFORMATION

Model	Volts	Output (W/ft.)	PCN
HWM 5-1CT	120	5 @ 50F	387305
HWM 5-2CT	208-277	5 @ 50F	387348
HWM 10-1CT	120	10 @ 50F	387250
HWM 10-2CT	208-277	10 @ 50F	387313

CHROMALOX

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LaVergne, TN 37086

TECHNICAL SUPPORT
412-967-3940

*press 1 to be directed to heat trace support

email: sales@chromalox.com
www.chromalox.com