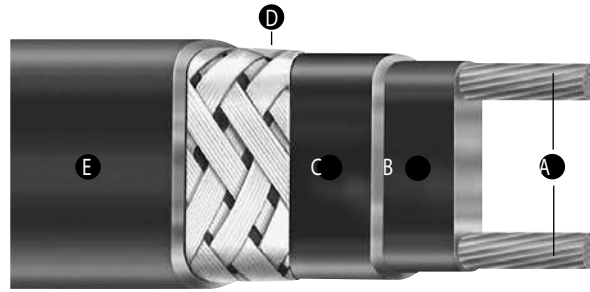
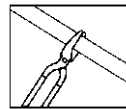




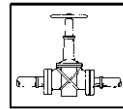
## HWM Hot Water Maintenance Heat Trace Cable



- Hot Water Maintenance for Temperatures up to 140°F
- Heat Output Varies Along Pipe Length to Deliver Heat Where Needed
- Circuit Lengths up to 800 ft
- 16 Awg Buss Wires
- Self-Regulating Conductive Core
- Fluoropolymer Jacket
- Wattages at 5 and 10 w/ft
- 120 and 208-277 V Cable Available from Stock



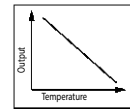
Cut to Length  
in Field



Can be  
Overlapped



Medium Tem-  
perature



Self Regulating  
Output

### Description

The HWM hot water temperature maintenance system utilizes self-regulating heat trace technology. The system, consisting of the self-regulating cable, connection kits and specialized electronic controls, provides commercial buildings with immediate hot water availability without expensive recirculation systems. It provides a simple, yet energy efficient approach by providing heat at the point where heat loss occurs. Due to the parallel construction of the self-regulating cable, it can be cut to any length, spliced, tee-branched and terminated on site. With this product, 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.

### Features

- Energy efficient, self-regulating HWM uses less energy when less heat is required.
- Easy to install, HWM can be cut to any length (up to max. circuit length) in the field.
- Field splices can be performed easily in minutes with no scrap or wasted cold sections.
- HWM can be overlapped without burnout, which simplifies heat tracing of in-line equipment such as valves.
- Because HWM is self-regulating, over-temperature conditions are minimized.
- Chromalox termination, splice, tee and end seal kits reduce installation time.

### Construction

- A Twin 16 AWG Copper Buss Wires** – Provide reliable electric current capability.
- B Semiconductive Polymer Core Matrix** – “Self-Regulating” component of the cable its electrical resistance varies with temperature. As process temperature drops, the core’s heat output increases; as process temperature rises, the heat output decreases.
- C Flame Retardant** – Electrically insulates the matrix and provides corrosion resistance.
- D Metallic Grounding Braid** – Provides additional mechanical protection and a positive ground path.
- E Fluoropolymer Outer Jacket** – Corrosion resistant, flame retardant overjacket is highly effective in many environments. Protects against exposure to organic or corrosive solutions. The overjacket also protects against abrasion and impact damage.

### Approvals

FM approved for hot water maintenance applications

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

## HWM Hot Water Maintenance Heat Trace Cables *(cont'd.)*

### Insulation Requirement

Required thickness of fiberglass insulation is determined by nominal pipe size.

Fiberglass Insulation Thickness Selection		
Copper Pipe Size (In.)	IPS Insulation Size (In.)	Insulation Thickness (In.)
1/2	3/4	1/2
3/4	1	1
1	1-1/4	1
1-1/4	1-1/2	1- 1/2
1-1/2	1-1/2	1-1/2
2	2	2
2-1/2	2-1/2	2 1/2
3	3	3

### HWM Tracing Selection

To select the proper HWM cable for your applications, use the tables below.

Cable Selection	
120V, 240V or 277V Maintain Temperature (°F) Cable	
105	HWM 5
115	HWM 10
125	HWM 10
140	HWM 10
208V Maintain Temperature (°F) Cable	
105	HWM 5
115	HWM 10
125	HWM 10
140	HWM 10

### Maximum Circuit Length (Ft.)

	Maximum Circuit Length ft		
	15A	20A	30A
HWM5-1CT	200	270	400
HWM5-2CT	400	540	800
HWM10-1CT	130	155	220
HWM10-2CT	260	310	440

# COMMERCIAL HEAT TRACE

## HWM Hot Water Maintenance Heat Trace Cables *(cont'd.)*

### Ordering Information

Model	Volts	Stock	PCN	Wt./1000' (Lbs.)
HWM5-1CT	120	S	387305	66
HWM5-2CT	208-277	S	387348	66
HWM10-1CT	120	S	387250	66
HWM10-2CT	208-277	S	387313	66

**To Order** – Specify length, model, PCN and installation accessories.

### Accessories

Accessories		DL	EL
Power Connection	Heat trace to electrical service connection	RTPC	SSK/HSK-PC
Splice & Tee		RTST	RT-RST
End Seal	For terminating cable	RTES	RT-RES
Thermostat	Ambient air sensing thermostat	RTAS	TPR
	Line sensing mechanical thermostat	RTBC	TPR

General Application & Installation Accessories such as tape, pipe straps, warning labels, etc., refer to the Heat Trace Accessories page at the end of this section.

### Ordering Information

**To Order** —  
Complete the  
Model Number  
using the Matrix  
provided.

Model	Hot Water Maintenance Heating Cable				
HWM	<b>Code</b>	<b>Output (W/Ft.)</b>			
	5	Five			
	10	Ten			
		<b>Code</b>	<b>Voltage</b>		
		1	120		
		2	208-277		
		<b>Code</b>	<b>Overcoat</b>		
		CT	Fluoropolymer corrosion resistant overjacket over braid for hostile/corrosive environments		
HWM	5	-	2	CT	Typical Model Number