HEATING CABLE

CWM

Constant Wattage Medium Temperature

- Uniform Thermal Output, Low Energy Cost
- No Inrush at Any Ambient
- Industrial/Process and Commercial/Construction Applications
- Maximum Exposure Temperature, Power Off, 392°F (200°C)
- Steam Cleanable on Process Equipment Up to 190 PSIG (Power Off)
- 4, 8 and 12 W/Ft.
- 120, 208 277 and 480 Volt From Stock
- Approx Size:
 0.368" W x 0.266" H +/- 0.01
- Minimum Bend Radius 1-1/4"
- For Use on Metallic Pipes
- Consult Factory for Use on Plastic Pipes

Description

Chromalox CWM constant wattage heating cable is a proven, reliable solution for industrial process temperature maintenance and freeze protection. CWM features a parallel heating core that produces uniform thermal output over its entire length. Using a single power point, you can easily configure and install a heat tracing system as short as several feet or as long as 780 feet right in the field. With 392°F (200°C) fluo ropolymer electrical insulation over-jacketing, CWM has outstanding electrical and thermal properties, and is well suited for most chemically hostile environments.

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.









Cut to Length in Field



Medium Tem perature



Constant Wat age Output

Note — Consult maximum maintenance temperature chart on page G-23 for allowable watt densities.

Features

- Durable, non-aging fluoropolymer jacket ensures long service life and can be used in some hostile environments.
- Flexible, easy to install on most equipment and delivers long-term reliable performance.
- Eliminates the need for oversized wiring or switchgear.
- Accurate temperature, reliable electric heat that can be consistently controlled and easily monitored.
- · Safe and rugged.
- Parallel circuitry allows cut-to-length.
- High performance, rated to withstand up to 392°F saturated steam (190 psig) tempera ture (power off).
- Low profile, uses standard size ther mal insulation on piping and process equipment.

- Nickel Chromium Wire Heating component of the cable.
- **FEP Insulation** Rugged outer sheath protects heating cable, assures longer service life, and provides protection against environmental application hazards.
- **Tinned Copper Braid** Plated copper braid increases robust construction, provides ground path and provides additional protection in any location. Suffix "C" in model number.
- **G FEP Overjacket** Fluoropolymer over jacket, over the braid, provides protection from most aqueous and chemically corro sive solutions. Suffix"T" in model number.

Construction

- Twin 12 AWG Copper Buss Wires Provide reliable, consistent electrical current.
- **B** FEP Insulation Jacket Electrically insulates buss wires.
- Pairing Jacket Secures two buss wires together and provides wrapping surface for Nichrome wire.

Approvals¹

UL Listed for ordinary areas.

CSA Certified for ordinary and:

- Class I, Div. 2, Groups A, B, C, D
- Class II, Div. 2, Groups F, G. Rated T3 Tem perature Class ².

Notes —

- 1. Depends on specific model.
- Exception: Cable surface temperature shall not exceed 190°C in Class II, Div. 2, Group F; 165°C in Class II, Div. 2, Group G.



HEATING CABLE

CWM

Constant Wattage Medium Temperature (cont'd.)



Specifications

Model	Output (W/Ft.)	Nominal Voltage (Vac)	Circuit Load (Amps/Ft.)	Max. Circuit Length (Ft.)	Length Between Nodes (in.)	Jacket Color
CWM 4-1	4	120	0.033	600	36	Blue
CWM 8-1	8	120	0.067	290	24	Orange
CWM 12-1	12	120	0.100	200	24	Black
CWM 4-2	4	240	0.017	1100	48	Green
CWM 8-2	8	240	0.033	600	36	Yellow
CWM 12-2	12	240	0.050	400	48	White
CWM 12-4	12	480	0.025	800	72	Green

Output Wattage a Various Operating Voltages (per ft.)

				*		
Model	120V	208V	220V	240V	277V	480 V
CWM 4-1	4	-	-	-	-	-
CWM 8-1	8	-	-	-	-	-
CWM 12-1	12	-	-	_	-	-
CWM 4-2	_	3	3.4	4	5.3	-
CWM 8-2	_	6	6.7	8	10.7	-
CWM 12-2	-	9	10.1	12	16	-
CWM 12-4	-	2.3	2.5	3	4	12

Maximum Allowable Pipe Maintenance Temperature with Power On

Output	Temperatures (°F)								
(W/Ft.)	3	4	6	6.7	8	9	10.1	10.6	12
w/o AT-1 Tape	340	325	293	282	262	246	229	222	200
w/ AT-1 Tape	350	344	332	328	320	314	307	304	296



HEATING CABLE

CWM

Constant Wattage Medium Temperature (cont'd.)

Ordering Information

Output (W/Ft.)	Nominal Voltage (Vac)	Model	Stock	PCN	Wt./1000' (Lbs.)
1	120	CWM 4-1CT	S	392075	110
4	240	CWM 4-2CT	S	392083	110
8	120	CWM 8-1CT	S	392163	110
0	240	CWM 8-2CT	S	392171	110
	120	CWM 12-1CT	S	392251	110
12	240	CWM 12-2CT	S	392260	110
	480	CWM 12-4CT	S	392278	110

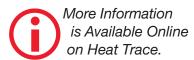
Accessories

	Accessories	U Series	DL	EL	
Power Connection	Heat trace to electrical service connection	UPC	RTPC	SSK	
Splice & Tee			RTST	RT-TST	
End Seal	For terminating cable	UES	RTES	N/A	
Lighted End Seal		UESL	RTST-SL	N/A	
Thermostat	Ambient air sensing thermostat	UAS	RTAS	THL/TXL	
	Line sensing mechanical thermostat	UBC	RTBC	THR/TXR	
To Order — General Application & Installation Accessories such as tape, pipe straps, warning labels, etc., refer to the U Series, DL & EL General Application Accessories page at the end of this section.					

Ordering Information

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

/lodel	Constant Wattage Medium Temperature						
CWM	Constant Wattage, Medium Temperature Heating Cable						
	Code	Outpu	t (W/Ft.)				
	4	Four Eight					
	12	Twelve)				
		Code	Nomina	l Voltage (Vac)			
		1 2	120 240				
		4	480				
			Code	Overjacket Options			
			СТ	Fluoropolymer corrosion resistant overjacket over braid for hostile/ corrosive environments			
CWM	4 -	1	CT	Typical Model Number			



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and Select Manuals.

