

HEATING CABLE

CWM

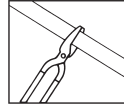
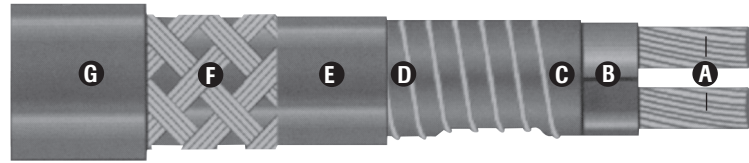
Constant Wattage Medium Temperature

- 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
- Approximate Size .30"W x .25"H
- Minimum Bend Radius 1-1/4"
- For Use on Metallic Pipes
- Consult Factory for Use on Plastic Pipes

Description

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) fluoropolymer electrical insulation over-jacketing, CWM has outstanding electrical and thermal properties, and is well suited for most chemically hostile environments.

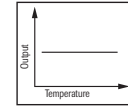
WARNING — A ground fault protection device is required by NEC to minimize the danger of fire if the heating cable is damaged or improperly installed. A minimum trip level of 30mA is recommended to minimize nuisance tripping.



Cut to Length
in Field



Medium Tem-
perature



Constant Watt-
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) temperature (power off).
- Low profile, uses standard size thermal insulation on piping and process equipment.

Construction

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

- D** **Nickel Chromium Wire** — Heating component of the cable.
- E** **FEP Insulation** — Rugged outer sheath protects heating cable, assures longer service life, and provides protection against environmental application hazards.
- F** **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 corrosive solutions. Suffix "T" in model number.

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 Temperature Class².

Notes

1. Depends on specific model.
2. 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.



SOUTHEAST THERMAL SYSTEMS

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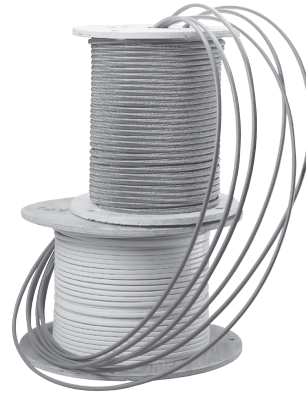
SALES@SEETHERMAL.COM

phone: 704-399-4248

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	480V
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 (W/Ft.)	Temperatures (°F)								
	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

CONSTANT
WATTAGE



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HEATING CABLE

CWM

Constant Wattage

Medium

Temperature *(cont'd.)*

Ordering Information

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

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



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