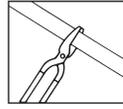
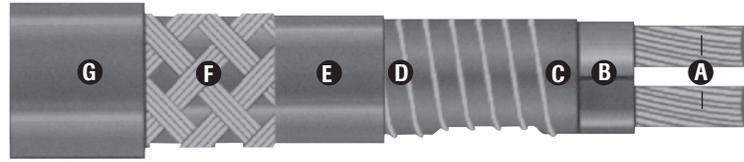


## CZH Constant Wattage Zone Heater

- Uniform Thermal Output, Low Energy Cost
- No Inrush at Any Ambient
- Commercial Construction Applications:
  - Pipe Freeze Protection
    - Potable & Non-Potable Piping
    - Sanitary & Storm Piping
  - Flow Maintenance
    - Greasy Waste Piping
    - Diesel Fuel Piping
  - Freezer Frost Heave Prevention
  - Floor Warming
- Maximum Exposure Temperature, Power Off, 392°F (200°C)
- 4, 8 and 12 W/Ft.
- 120, 208-277, 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

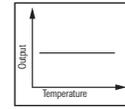
**WARNING** — A ground fault protection device is required by NEC to minimize the danger of fire if the heating cable is damaged or improperly installed. A minimum trip level of 30mA is recommended to minimize nuisance tripping.



Cut to Length  
in Field



Medium  
Temperature



Constant  
Wattage Output

**Note** — Consult maximum maintenance temperature chart for allowable watt densities.

### Description

Chromalox CZH Cable is a multi-purpose heating cable designed for commercial pipe tracing, embedded floor warming, and frost heave prevention. Chromalox's CZH Cable is constructed of a parallel heating core that produces uniform thermal output over its entire length. It can be easily cut to length, spliced, tee to more easily follow piping networks.

Chromalox's CZH Heating Cable can be placed in conduit embedded in concrete to prevent frost heave or placed onto concrete slabs for supplemental comfort heat. Chromalox's CZH cable can even be placed inside of conduit for applications making replacement of the heating cable possible. Chromalox's CZH is truly a versatile heating cable solution.

### 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.
- Accurate temperature, reliable electric heat that can be consistently controlled and easily monitored.
- Parallel circuitry allows cut-to-length.
- Low profile, uses standard size thermal insulation on piping and process equipment.

### Construction

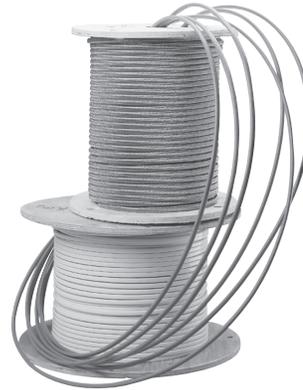
- A** Twin 12 AWG Copper Buss Wires — Provide reliable, consistent electrical current.
- B** FEP Insulation Jacket — Electrically insulates buss wires.
- C** Pairing Jacket — Secures two buss wires together and provides wrapping surface for Nichrome wire.
- D** Nickel Chromium Wire — Heating component 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 overjacket, over the braid, provides protection from most aqueous and chemically corrosive solutions. Suffix "T" in model number.

### Approvals

CSA Certified for ordinary areas

## CZH

### Constant Wattage Zone Heater *(cont'd.)*



#### Specifications

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

#### Output Wattage a Various Operating Voltages (per ft.)

Model	120V	208V	220V	240V	277V	480V
CZH 4-1	4	–	–	–	–	–
CZH 8-1	8	–	–	–	–	–
CZH 12-1	12	–	–	–	–	–
CZH 4-2	–	3	3.4	4	5.3	–
CZH 8-2	–	6	6.7	8	10.7	–
CZH 12-2	–	9	10.1	12	16	–
CZH 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

## CZH Constant Wattage Zone Heater *(cont'd.)*

### Ordering Information

Output (W/Ft.)	Nominal Voltage (Vac)	Model	Stock	PCN	Wt./1000' (Lbs.)
4	120	CZH 4-1CT	S	390432	110
	240	CZH 4-2CT	S	390440	110
8	120	CZH 8-1CT	S	390459	110
	240	CZH 8-2CT	S	390467	110
12	120	CZH 12-1CT	S	390475	110
	240	CZH 12-2CT	S	390483	110
	480	CZH-12-4CT	S	390487	110

### Accessories

Accessories		DL	EL
Power Connection	Heat trace to electrical service connection	RTPC	SSK
Splice & Tee		RTST	RT-TST
End Seal	For terminating cable	RTES	N/A
Lighted End Seal		RTST-SL	N/A
Thermostat	Ambient air sensing thermostat	RTAS	TPR
	Line sensing mechanical thermostat	RTBC	TPR
<b>To Order —</b> 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 Zone Heater				
CZH	Constant Wattage Zone Heater				
	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			
CZH	<input type="checkbox"/>	-	<input type="checkbox"/>	CT	Typical Model Number



More Information  
is Available Online  
on Heat Trace.

Bookmark Your Browser to  
[www.chromalox.com](http://www.chromalox.com)  
and Select **Manuals**.