

ARCTIC TRACE[®]

Type CW series Constant Wattage

PRODUCT SPECIFICATION SUBMERSIBLE FREEZE PROTECTION SYSTEM

APPLICATION:

ARCTIC TRACE CW series Constant Wattage Heating Cable is designed for a wide range of heating applications using parallel resistance heating element. Suitable for water freeze protection and process viscosity maintenance. The product is specially designed to be in contact with the process (submersible) or on the outside of the pipe in a conventional heating fashion.

CONSTRUCTION:

1. Copper bus wire (12 AWG)
2. High quality nickel chrome alloy heating wire
3. Welded heater-bus connection
4. Tefzel jacket (Tefzel is a trademark of E.I. DuPont)
5. (CB) Nickel plated copper braid *

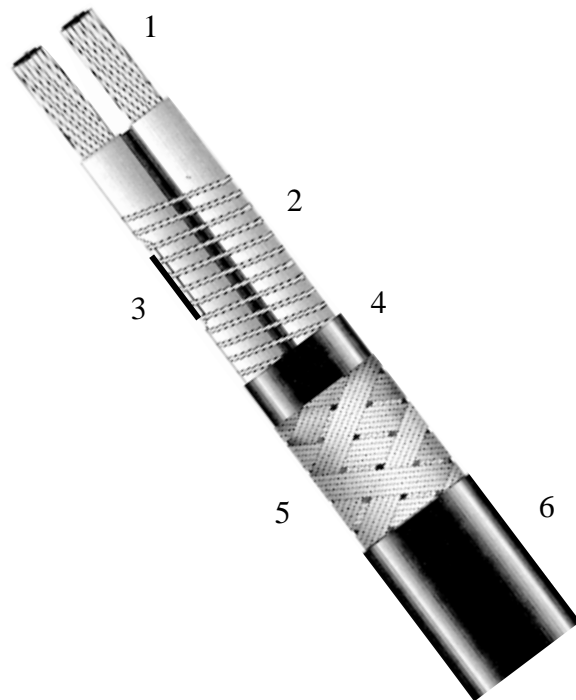
OPTIONS:

6. (TEZ) Tefzel over-jacket provides sanitary cover for food application in addition to mechanical and corrosion protection for metal braid

* (SS) 316 SS Braid # 5

PRODUCT FEATURES:

CW heating cable incorporates a constant wattage metal heating element that provides a cost effective submersible freeze protection system for metal pipes, low wattage plastic pipe applications, commercial drain, and waste sewer out-fall. Featuring zero inrush at start-up, low energy cost, most rugged and flexible, field cut to length the cable is specifically designed to be installed outside the pipe or submerged in the water or process and is approved for use in contact with potable water.



RATINGS




Maximum maintenance temperature:	300° F (149° C)
Maximum contains exposure temperature: (de-energized)	500° F (260° C)
Minimum installation temperature:	-60° F (-51° C)
Earth Leakage:	1.5 mA per 100 ft. (31 mA) @ 240 VAC
Voltage:	120/240/440 (others) VAC nominal

* Higher maintenance temperatures and operating voltages up to 480Vac may be possible. Contact du Alaska for design assistance.

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CATALOG NUMBER	Rating W/FT W/M	CIRCUIT LOAD AMP DRAW @ -40			CIRCUIT LENGTH @		CIRCUIT LENGTH WITH END TO END WATT REDUCTION			
		W/M 50F 10C	AMPS FT	AMPS M	FULL LOAD *		15%		20%	
@ 120 VAC	W/FT 50F 10C	W/M 50F 10C	AMPS FT	AMPS M	FULL LOAD *		15%		20%	
Z120312CBCW	3	10	.03	.10	450'	120M	500'	150M	590'	177M
Z120512CBCW	5	16	.04	.164	310'	95M	350'	106M	410'	125M
Z120712CBCW	7	23	.06	.33	220'	66M	250'	75M	300'	90M
Z121012CBCW	10	33	.08							
@ 240 VAC										
Z120324CBCW	3	10	.012	.04	480'	121M	600'	181M	875'	266M
Z120524CBCW	5	16	.020	.066	390'	119M	500'	153M	600'	183M
Z120724CBCW	7	23	.029	.095	380'	78M	330'	100M	390'	118M
Z121024CBCW	10	33	.041	.012	370'					
The power output shown apply to standard cable installed on insulated metallic pipe with the service voltage stated.										
<p>ALTERNET VOLTAGES Should Arctic Trace be connected to a less or greater voltage watt per foot output will be reduced or increased</p> <p>ACTUAL WATT PER FOOT = $\left[\frac{\text{CONNECTED VOLTS}}{\text{RATED VOLTS}} \right]^2 \bullet$ ARCTIC TRACE W/ft</p>										
AMP per FT/M rating is based on -40° F start up temperature. Increase direct breaker for all cable temperatures > -40° F by 20% to allow for in rush current.										
Circuit Breaker should be sized per article 427-4 of the NEC and the use of Ground Fault Equipment is required as stated in N.E.C. Article 427-22.										
Approval Listing:										
 <p>Underwriters Laboratory Our freeze protection cable has been submitted to and tested by UL and has been recognized by that testing laboratory as a component heating cable to be used in an appropriate freeze protection system.</p>			 <p>Commercial & Industrial Ordinary and Hazardous Locations – 75C wet, 150C Dry Classified Class I, Groups C & D – Division 1 & 2 Class II, Groups E, F, & G – Division 1 & 2 On metal and nonmetallic pipe and vessels – 3A, 3B, 3C In metal and nonmetallic pipe and vessels – 4A, 4B, 5A, 5B wet location industrial</p>							
<p>United States Environmental Protection Agency Acceptable for surfaces which contact potable water.</p>			 <p>Commercial & Industrial UL 515 Type A & D Ordinary Locations – 75C wet, 150C Dry On metal and nonmetallic pipe and vessels – 3A, 3B, 3C In metal and nonmetallic pipe and vessels – 4A, 4B, 5A, 5B wet location industrial</p>							
* Full loads are based on 10% power drop when cable is energized on service voltage listed.										
CSA/US 4B designation or installation type D limited to power outputs of 3W/FT and 5W/FT										

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Arctic Trace[®]

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