ARCTIC TRACE ®

Type TL series Temperature Limiting

PRODUCT SPECIFICATION SUBMERSIBLE FREEZE PROTECTION SYSTEM

APPLICATION:

ARCTIC TRACE TL series Temperature Limiting Heating Cable are designed for a wide range of heating application 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:

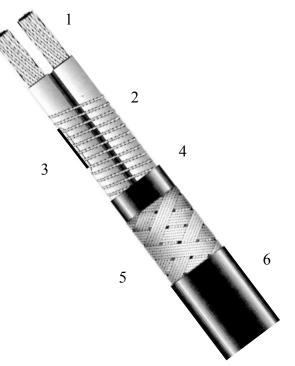
- 1. Copper bus wire (12 awg)
- 2. Temperature limiting metal resistance wire
- 3. Welded heater-bus connection
- 4. ETFE Flu on ® Extruded food grade Insulation
- 5. (CB) Nickel plated copper braid
 - (SS) 316 SS Braid

OPTIONS:

- 6. (TEZ) TEE over-jacket provides sanitary cover for food application in addition to mechanical and corrosion protection for metal braid
- 7. (NSF) Certified to NSF/ANSI 61

PRODUCT FEATURES:

TL heating cable incorporates a special metal heating element that reduces its resistance as temperature rises giving the cable a temperature limiting quality thus saving energy, protecting plastic pipes, limiting process temperature and allowing the cable to be overlapped during installation. Lowering the cable surface temperature extends cable life. The cable is specifically designed to be 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 continuous exposure temperature:	300° F (260° C)
(de-energized)	
Minimum installation temperature:	-60° F (-51° C)
Earth leakage:	1.5 mA per 100 ft. (31mA) @ 240 VAC
Voltage:	120/240 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		UIT LOAI RAW @		CIRCUIT CIRCUIT LENGTH WITH EN LENGTH @ END WATT REDUCTION						
@ 120 VAC	W/FT 50F	W/M 50F	AMPS FT	AMPS M	FULL LOAD *		1:	15%		20%	
Z120312CBTL	3	10	.03	.10	450'	120M	500'	150M	590'	177M	
Z120512CBTL	5	16	.04	.164	310'	95M	350'	106M	410'	125M	
Z120712CBTL	7	23	.06	.33	220'	66M	250'	75M	300'	90M	
Z121012CBTL	10	33	.08								
@ 240 VAC											
Z120324CBTL	3	10	.012	.04	480'	121M	600'	181M	875'	266M	
Z120524CBTL	5	16	.020	.066	390'	119M	500'	153M	600'	183M	
Z120724CBTL	7	23	.029	.095	380'	78M	330'	100M	390'	118M	
Z121024CBTL	10	33	.041	.012	370'						
a less or greater voltag output will be reduced Circuit Breaker should AMP per FT/M rating current. Approval Listings	d or increased be sized per a is based on -4 : Approvals	article 427-4 40°F start up	temperature.	nd the use of Increase dire	Ground Faul ct breaker fo	r all cable ter	is required as		to allow for	27-22. in rush	
Underw Our free submitte been ree tory as a used in system.		Cla Cla Cla UII; ® US Orco Con Con	linary Locati mmercial & I	Groups C. D; erature Code Groups C, D; e Coded (T6 ons ndustrial UL nonmetallic p onmetallic p	Class II, Div	2, Groups F, & D &ls – 3A, 3B,	, G; Class 3C				
* Full loads are based	on 10% powe	er drop when	cable is energ	gized on servi	ce voltage lis	sted.					
	on or installati										

du Alaska Incorporated Arctic Trace ®

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