

ARCTIC TRACE[®]

Type E series Temperature Limiting Submittal Data sheet

APPLICATION:

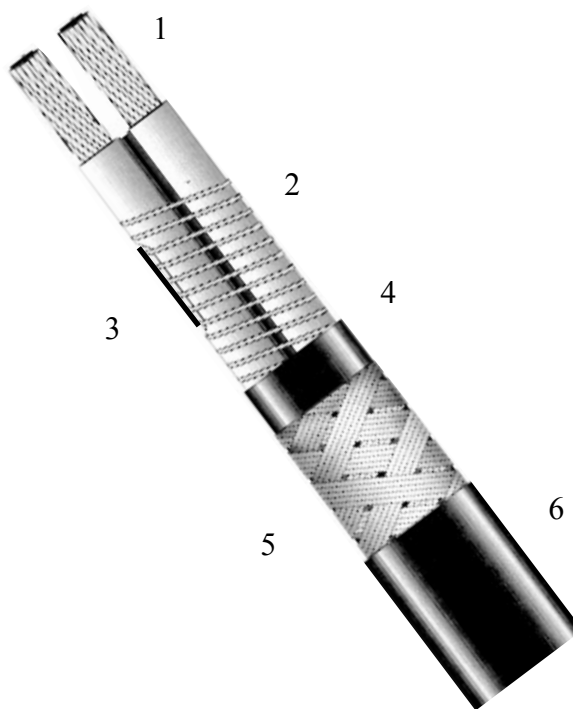
ARCTIC TRACE E series Temperature Limiting Heating Cable are designed for a wide range of heating application using parallel resistance heating element. Suitable for water freeze protection and process viscosity maintenance. The product is specially designed to be used for roof and gutter deicing, soil heating, pipe and vessel tracing in a conventional heating fashion.

PRODUCT FEATURES:

E 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 for wet or dry locations.

CONSTRUCTION:

1. Copper bus wire (16 awg)
2. Temperature limiting metal resistance wire
3. Welded heater-bus connection
4. Thermoplastic Elastomer Jacket
5. (CB) Nickel plated copper braid
6. (TEZ) ETFE over-jacket provides sanitary cover for food application in addition to mechanical and corrosion protection for metal braid
7. Optional bus wire size (14-12 awg)





RATINGS

Maximum maintenance temperature:	100° F (39° C)
Maximum continuous exposure temperature: (de-energized)	250° F (122° C)
Minimum installation temperature:	-10° F (-23° C)
Earth leakage:	1.5 mA per 100 ft. (31 m) @ 240 VAC
Voltage:	120/208/240 VAC nominal

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PRODUCT SPECIFICATION FREEZE PROTECTION SYSTEM

CATALOG NUMBER	Rating W/FT	CIRCUIT LOAD AMP DRAW @ -40 F			40% W/FT REDUCTION AT END OF LINE	
		W/M @50F	AMPS FT	AMPS M		
@ 120 VAC						
E160312CBTL-TEZ	3	10	.03	.08	250FT	100M
E160512CBTL-TEZ	5	16	.045	.13	250FT	91M
E160712CBTL-TEZ	7	23	.06	.18	200FT	84M
E161012CBTL-TEZ	10	33	.086	.3	200FT	72M
@ 240 VAC						
E160324CBTL-TEZ	3	10	.013	.05	350FT	190M
E160524CBTL-TEZ	5	16	.025	.07	350FT	183M
E160724CBTL-TEZ	7	23	.031	.09	250FT	145M
E161024CBTL-TEZ	10	33	.045	.13	200FT	138M
The power output shown apply to standard cable installed on insulated metallic pipe with the service voltage stated.						
ALTERNET VOLTAGES Should Arctic Trace be connected to a less or greater voltage watt per foot output will be reduced or increased		ACTUAL WATT PER FOOT = OUTPUT		$\left[\frac{\text{CONNECTED VOLTS}}{\text{RATED VOLTS}} \right]^2$		ARCTIC TRACE W/ft
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.						
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.						
Approval Listings:						
 Underwriters Laboratory Ordinary Locations- Heating Cable Component Listed UL Style Recognition		 Canadian Standards Association NRTL/C Ordinary Locations Roof de-icing soil heating and pipe and vessel tracing (designations 2a,2e,3a,3b,3c in Canada and installation types A, B and C in the U.S.A.				
* Full loads are based on 10% power drop when cable is energized on service voltage listed.						
Other voltage and watt rating may be available > contact: du Alaska Incorporated phone (907) 522-3004						

du Alaska Incorporated
Arctic Trace[®]

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