

# ARCTIC TRACE<sup>®</sup>

## *Direct Buried Freeze Protection System for Water and Sewer Utilities*

**Arctic Trace E Series  
is designed for pipeline freeze protection in direct  
burial or conventional pipe surface installation**

Arctic Trace E Series is a rugged and reliable direct bury freeze protection system for use in underground residential and commercial utilities. Ideally suited for water and wastewater supply lines.

### **Applications:**

The product is designed for wet underground location in direct contact with pipe or vessel. The rugged construction offers long life and is designed for a 10 year life with many existing installations still operating as new after 15 years.

The Arctic Trace has been specifically design for plastic pipe installation incorporating a temperature limiting construction that reduces the watt per foot output as the cable temperature increases protecting plastic pipes and saving energy.

**Installation**—The installation of our direct burial heat trace is made simple by attaching it to any plastic or steel pipeline using our metallic heat transfer tape assuring all heat energy is efficiently transfer to the pipeline. For most applications below the Arctic Circle lines need to be buried a minimum of 24". All exposed piping will need a minimum or 2" water proof insulation.

The simple construction of our heating cable consist of two 16 AWG buss wires and ground braid making electrical connection simple and cost effective. We offer a wide assortment of controls and safety devices for most applications.

### **Product of choice:**

Arctic Trace E Series Temperature Limiting heating cable:

#### **Model E160512CBTL/TEZ**

5 Watt per foot output at 120 VAC with Tefzel overjacket.

#### **Model E160524CBTL/TEZ**

5 Watt per foot output at 240 VAC with Tefzel over jacket.



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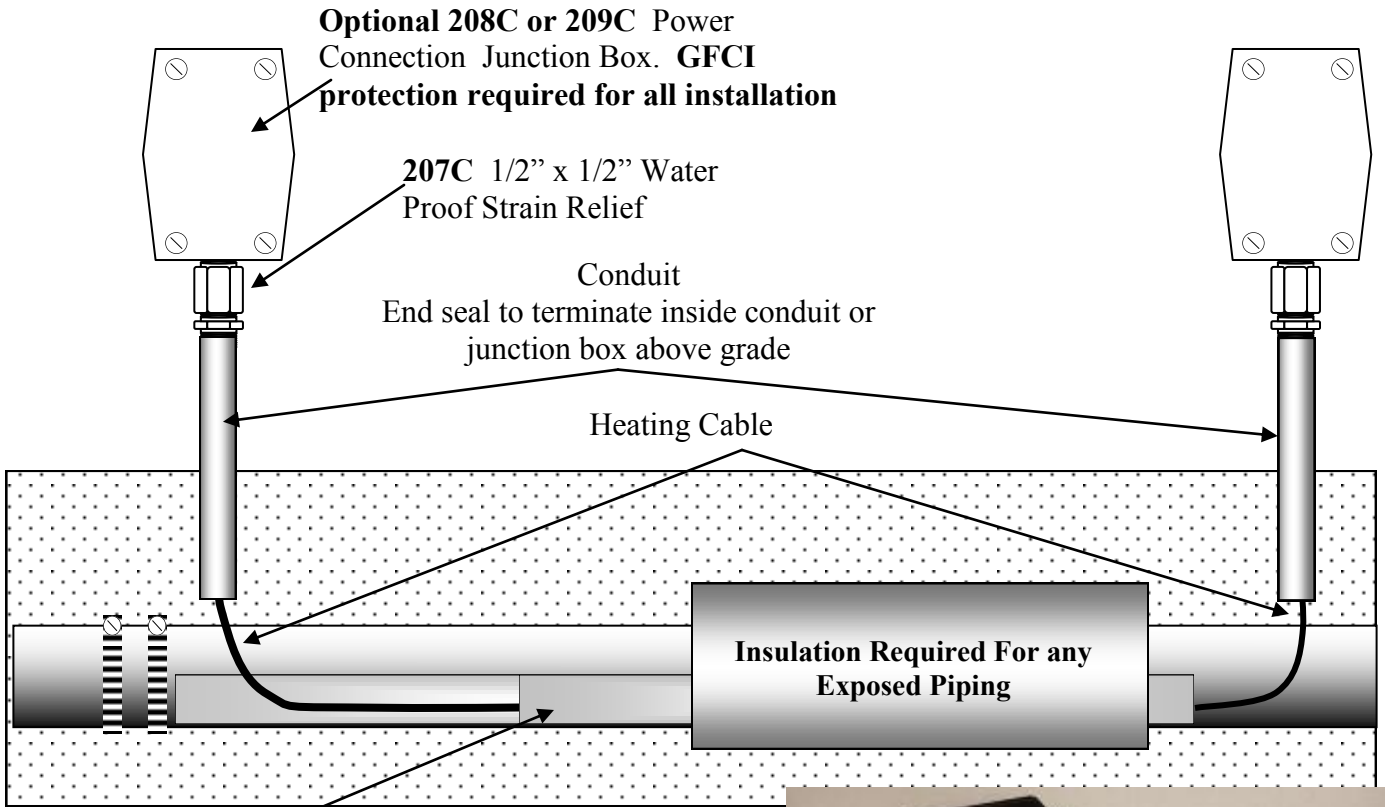
[www.arctictrace.com](http://www.arctictrace.com)

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## PRODUCT SPECIFICATION FREEZE PROTECTION SYSTEM

CATALOG NUMBER	Rating W/FT	CIRCUIT LOAD AMP DRAW @ -40 F			MAXIMUM RECOMMENDED CIRCUIT LENGTH	
		W/M @50F	AMPS FT	AMPS M	Maximum circuit length is based on a 40% voltage drop at end of line	
<b>@ 120 VAC</b>						
E160312CBTEZ	3	10	.025	.07	250FT	82M
E160512CBTEZ	5	16	.04	.13	250FT	82M
<b>@ 240 VAC</b>						
E160324CBTEZ	3	10	.012	.04	350FT	115M
E160524CBTEZ	5	16	.020	.07	350FT	115M

### Typical Buried Pipeline Installation for Heating Cable in Ordinary Location



330C Metal Heat Transfer Tape

Optional C14880 GFCI with 15' pig tale



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

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