

up to
185°F

Low Temperature Self-Regulating Heating Cable

Overview:

POWER TRACE EHTL is a low-temperature exposure, industrial-grade, self-regulating heating cable that can be safely used for freeze protection and process temperature maintenance with or without steam purge applications where the heating cable exposure temperature from the pipeline or vessel is lower than 185°F (85°C). The maximum maintenance temperature will be up to 150°F (65°C). EHTL heating cable is built to perform in the harshest of environments to safely and reliably maintain the temperature of the medium being transported or processed in the pipeline or vessel. Factory Mutual (FM) and the North American CSA Group have certified EHTL heating cable and approved it for use in ordinary and hazardous areas as defined according to the relative standard for the United States.

Product Ratings:

EHTL heating cable is certified by Factory Mutual (FM) United States and CSA Group (US) for the safe use in hazardous and ordinary locations including explosion-proof applications.

Class I, Zone 1, AEx 60079-30-1 IIC T6* Gb
Zone 21, AEx 60079-30-1 IIIC T85°C* Db
Class I, Division 2, Groups A, B, C, D T6*
Class II, Division 2, Groups F, G T6*
Ta = -40°C to +40°C*
Voltage: 1 or 2



*For 12EHTL, T5 and T100°C, as applicable, for Ta = -40°C to +55°C



1. Nickel-plate copper bus wire (16AWG)
2. PTC self-regulating conductive core
3. Fluoropolymer inner insulation layer
4. Tinned copper braid
5. Outer jacket: Fluoropolymer or Modified Polyolefin

Product Structure:

The extruded core tape, made with parallel nickel-plate copper bus wire and PTC semiconductor polymer heating material, and a inner insulation layer of fluoropolymer added with a tinned copper braid and the outer jacket can be made of fluoropolymer material (CT) or Outer jacket: Fluoropolymer or Modified Polyolefin (CR).

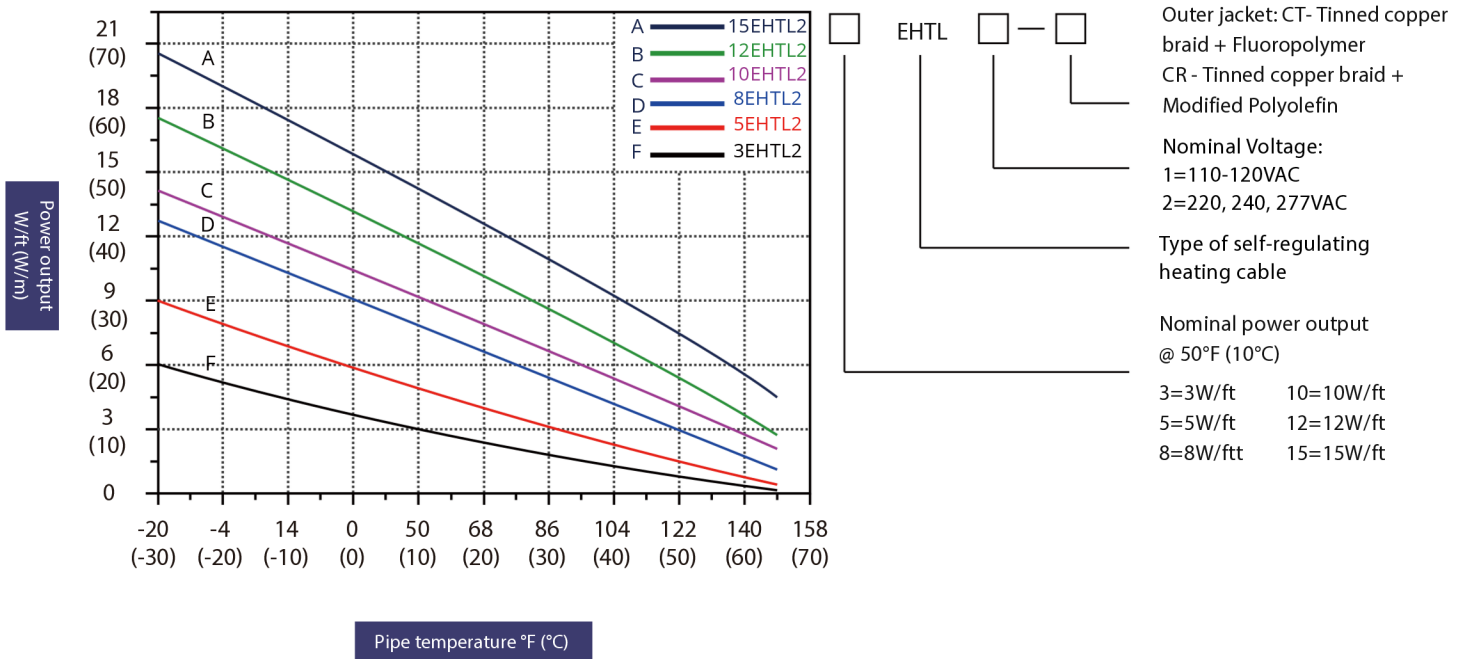
Product Feature:

- ◆ Designed for Critical Process Temperature Maintenance and Freeze Protection of Piping, Tanks, Vessels and other Equipment.
- ◆ The characteristics of self-regulating heat trace automatically adjusts the cables power output based on the cables surrounding temperature, as the temperature decreases the power output increases, likewise the power output will decrease as the cable temperature increases.
- ◆ Overheating or burning of the cable is avoided even in the case of an overlapping installation. Simultaneously this feature can increase the efficiency of the heat tracing system and reduce energy consumption.
- ◆ It is permitted to connect with compliant accessories and cut the cable to the length required within the given maximum circuit length range.
- ◆ EHTL heat trace has a complete series of accessories, including a standard power box, splice/tee connection box and lighted end seal box etc, which can ensure the long service life of the product.

Technical Specification:

Nominal voltage:	110-120V (EHTL1) / 220-277V (EHTL2)
Maximum maintaince temperature:	+85°C (150°F)
Maximum intermittent exposure temperature:	+85°C (185°F)
Temperature classification:	T5/T6
IP level:	IP66/67
Minimum installation temperature:	-60°C (-76°F)
Minimum bending radius:	30mm
Nominal power output @10°C :	5W/ft, 8W/ft, 10W/ft, 12W/ft, 15W/ft
Dimension:	CT: 11.96mm (W)x5.36mm (T) / CT: 14.8mm (W)x6.4mm (T) (Only for 15EHTL)
Approvals mark:	 

Power output curve:



120Vac Service Voltage:

CB size(A)	Start-up temperature °C (°F)	Max Circuit Length Vs Breaker Size (ft)					
		3EHTL1	5EHTL1	8EHTL1	10EHTL1	12EHTL1	15EHTL1
15	10 (50)	342	277	185	145	102	84
	0 (32)	342	253	163	132	93	76
	-10 (14)	282	228	145	121	85	70
	-20 (-4)	265	192	116	111	79	64
	-40 (-40)	224	147	103	97	68	56
20	10 (50)	342	277	202	182	128	105
	0 (32)	342	277	185	165	116	95
	-10 (14)	342	260	163	151	107	87
	-20 (-4)	317	241	149	139	99	80
	-40 (-40)	282	211	130	121	86	70
25	10 (50)	342	277	205	197	160	131
	0 (32)	342	277	205	197	146	119
	-10 (14)	342	277	205	189	133	109
	-20 (-4)	342	277	205	174	123	101
	-40 (-40)	342	277	192	151	107	87
30	10 (50)	342	277	205	197	175	167
	0 (32)	342	277	205	197	175	152
	-10 (14)	342	277	205	197	171	139
	-20 (-4)	342	277	205	197	158	129
	-40 (-40)	342	277	205	193	137	111
40	10 (50)	342	277	205	197	175	171
	0 (32)	342	277	205	197	175	171
	-10 (14)	342	277	205	197	175	171
	-20 (-4)	342	277	205	197	175	161
	-40 (-40)	342	277	205	197	171	139

240V Service Voltage:

CB size(A)	Start-up temperature °C (°F)	Max Circuit Length Vs Breaker Size (ft)					
		3EHTL2	5EHTL2	8EHTL2	10EHTL2	12EHTL2	15EHTL2
15	10 (50)	685	555	370	291	205	167
	0 (32)	685	507	325	264	186	152
	-10 (14)	565	455	291	242	171	139
	-20 (-4)	531	383	233	223	158	129
	-40 (-40)	448	294	205	193	137	111
20	10 (50)	685	555	404	363	256	209
	0 (32)	685	555	370	330	233	190
	-10 (14)	685	520	325	302	214	174
	-20 (-4)	633	483	298	278	197	161
	-40 (-40)	565	421	260	242	171	139
25	10 (50)	685	555	411	394	320	261
	0 (32)	685	555	411	394	291	238
	-10 (14)	685	555	411	377	267	218
	-20 (-4)	685	555	411	348	247	201
	-40 (-40)	647	555	383	302	214	174
30	10 (50)	685	555	411	394	349	334
	0 (32)	685	555	411	394	349	304
	-10 (14)	685	555	411	394	342	278
	-20 (-4)	685	555	411	394	316	257
	-40 (-40)	685	555	411	387	274	223
40	10 (50)	685	555	411	394	349	342
	0 (32)	685	555	411	394	349	342
	-10 (14)	685	555	411	394	349	342
	-20 (-4)	685	555	411	394	349	322
	-40 (-40)	685	555	411	394	342	279

Description:

The maximum circuit length shown is in accordance with NEC article 427 and other relevant sections of the NEC, with Ground Fault Equipment Protection Device (EPD) circuit breakers as standard, at reference start-up temperature and 10°C. Experimental data obtained from instantaneous trip current characteristics under maintenance temperature conditions. For the maximum loop length corresponding to other trip current characteristics or other types of circuit breakers, please contact a technical representative of the Power Trace Company.

Although the heat tracing system is generally used to maintain the medium in the pipe or vessel at the required temperature level, the self-regulating heat tracing cable may be at a lower temperature level when it is energized. For design data when the starting temperature is lower than the above temperature, please contact a technical representative of the Power Trace Company.

Maximum loop length refers to the continuous length of the heating cable, not the sum of the lengths of multiple sections. Relating to current load for each section, please contact a technical representative of the Power Trace Company.