



FREEZE TRACE

Self-Regulating Heating Cable (FT)

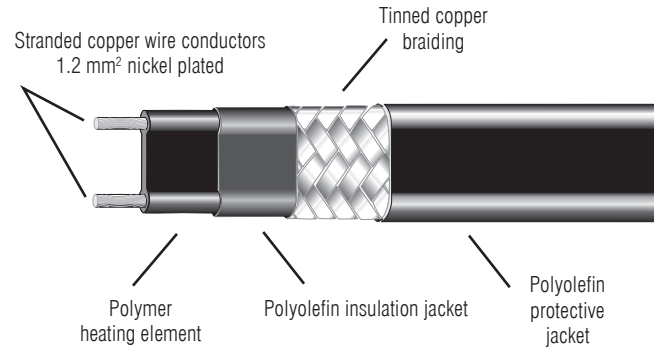


DESCRIPTION

The Freeze Trace (FT) system is easy to design and install utilizing the required connection kits. Self-regulating parallel circuit heating cables are the perfect solution for general freeze protection in residential, commercial and industrial applications. The cable can be cut to length at the job site and installed directly on pipes simplifying the installation process and reducing waste.

Heating power increases or decreases depending on the ambient temperature. Self-regulation takes effect at every point along the heating cable. Insulation of thermoplastic elastomer (TPE) provides excellent resistance and in connection with the outer jacket offers exceptional moisture and abrasion resistance.

CABLE CONSTRUCTION



CONNECTION KITS

Britech connection kits must be used with FT heating cables.

- BRI-PEK-FT power connection and end seal kit.
- BRI-TSP-1 T-splice and end seal kit.

CERTIFICATIONS

Certification
CAN/CSA-C22.2 No. 130-03
1862457; Class: 2878-01, 2878-81
Class I, Div. 2, Groups A, B, C, D
Class II, Div. 2 Groups E, F, G
Class III



BARTEC | Made in Germany

FEATURES

- Protect pipes, water systems, fire protection and sprinkler systems.
- Install on roofs, gutters and drains.
- Use for temperature maintenance up to 65 °C.
- Can be cut to length on site.
- Will not self-destruct by overheating.
- Moisture and abrasion resistant.

SPECIFICATIONS

Voltage	Available from 120V to 277V.
Installation temperature	Min. installation temperature: -55 °C. Min. start-up temperature: -55 °C.
Operating temperature	Max. operating temperature switched off: max. 85 °C (1000 hours cumulative). Max. operating temperature switched on: max. 65 °C.
Cable dimension	11.8 mm x 5.8 mm.
Min. bending radius	1" (25 mm).

INSTALLATION

Refer to the Freeze Trace (FT) manual for complete installation instructions. Electrical connection of the heating system and thermostat should be done only by a qualified electrician.

WARRANTY

Warranted free from manufacturers defect for 5 years.
Visit www.britech.ca for limited warranty details.

MAX. HEATING CIRCUIT LENGTH AT 120V (FT.)

PRODUCT #	START-UP TEMPERATURE	CIRCUIT BREAKER CAPACITY ¹		
		20A	30A	40A
FT110-1410P	10 °C (50 °F)	344	344	344
	-18 °C (0 °F)	285	344	344
	-29 °C (-20 °F)	256	344	344
	-40 °C (-40 °F)	233	344	344
FT115-1410P	10 °C (50 °F)	279	282	282
	-18 °C (0 °F)	200	282	282
	-29 °C (-20 °F)	180	272	282
	-40 °C (-40 °F)	164	246	282
FT115-1410B	10 °C (50 °F)	279	282	282
	-18 °C (0 °F)	200	282	282
	-29 °C (-20 °F)	180	272	282
	-40 °C (-40 °F)	164	246	282
FT125-1410P	10 °C (50 °F)	190	217	217
	-18 °C (0 °F)	141	213	217
	-29 °C (-20 °F)	128	194	217
	-40 °C (-40 °F)	118	177	217
FT133-1410P	10 °C (50 °F)	154	164	164
	-18 °C (0 °F)	115	164	164
	-29 °C (-20 °F)	105	154	164
	-40 °C (-40 °F)	95	141	164

MAX. HEATING CIRCUIT LENGTH AT 240V (FT.)

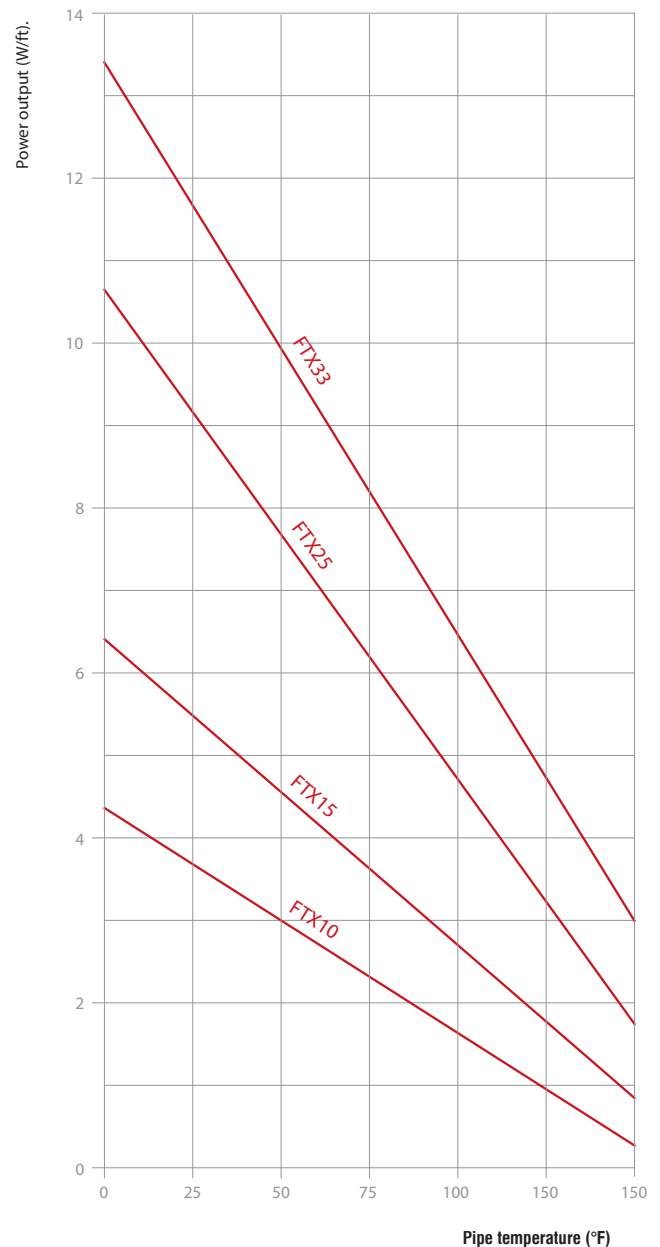
PRODUCT #	START-UP TEMPERATURE	CIRCUIT BREAKER CAPACITY ¹		
		20A	30A	40A
FT210-1410P	10 °C (50 °F)	676	676	676
	-18 °C (0 °F)	545	676	676
	-29 °C (-20 °F)	492	676	676
	-40 °C (-40 °F)	446	676	676
FT215-1410P	10 °C (50 °F)	538	558	558
	-18 °C (0 °F)	387	558	558
	-29 °C (-20 °F)	348	522	558
	-40 °C (-40 °F)	315	476	558
FT215-1410B	10 °C (50 °F)	538	558	558
	-18 °C (0 °F)	387	558	558
	-29 °C (-20 °F)	348	522	558
	-40 °C (-40 °F)	315	476	558
FT225-1410P	10 °C (50 °F)	315	433	433
	-18 °C (0 °F)	233	351	433
	-29 °C (-20 °F)	213	318	423
	-40 °C (-40 °F)	194	292	387
FT233-1410P	10 °C (50 °F)	200	299	328
	-18 °C (0 °F)	148	223	295
	-29 °C (-20 °F)	135	200	269
	-40 °C (-40 °F)	121	184	246

ADJUSTMENT FACTORS AT 208V AND 277V

PRODUCT #	208V		277V	
	POWER OUTPUT	CIRCUIT LENGTH	POWER OUTPUT	CIRCUIT LENGTH
FT210	0.90	0.96	1.23	1.09
FT215	0.93	0.94	1.19	1.10
FT225	0.95	0.92	1.11	1.14
FT233	0.97	0.92	1.06	1.16

¹Breaker sizing should be based on the National Electrical Code, Canadian Electrical Code or any other applicable code. The NEC and CEC require ground-fault protection of equipment for each branch circuit supplying electric heating equipment. Check local codes for ground-fault protection requirements.

Heating cable installed and measured on a pipe in accordance with VDE 0254, EN 62395-1 accept for IEC / EN 62086-1 and IEC 60079-30-1.



MODELS

120V

FT110-1410P (3W/ft.)

FT115-1410P (5W/ft.)

FT115-1410B (6W/ft.)

FT125-1410P (8W/ft.)

FT133-1410P (10W/ft.)

240V

FT210-1410P (3W/ft.)

FT215-1410P (5W/ft.)

FT215-1410B (6W/ft.)

FT225-1410P (8W/ft.)

FT233-1410P (10W/ft.)

Ordering Information: Product #: FT X XX - 1410X

① Supply voltage: 1=120V, 2=208~277V ② Heat output at 10 °C, Watts/m ③ Cable type