

ELEC TRACE ^{TM/MD}

Heating Cable Manufacturer



Heating cables catalog and technical information

2020

Distributed by



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25 YEARS

3,7W CABLE

Floor Heating Systems



6W CABLE

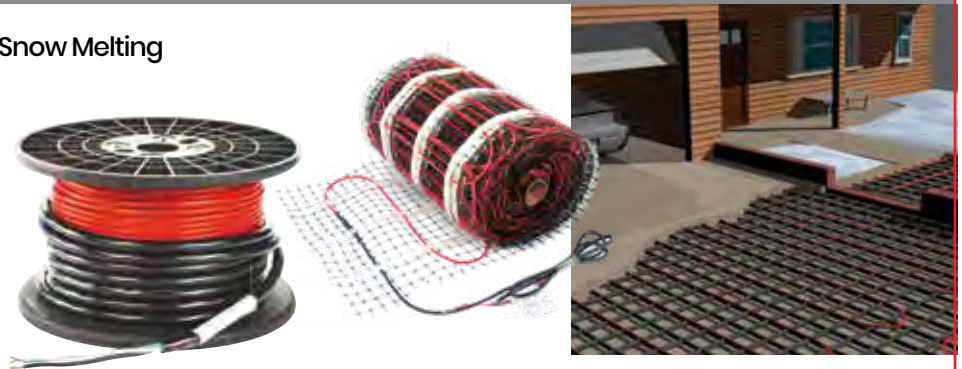
Interior Concrete Slab Heating Systems



10 YEARS

15W CABLE

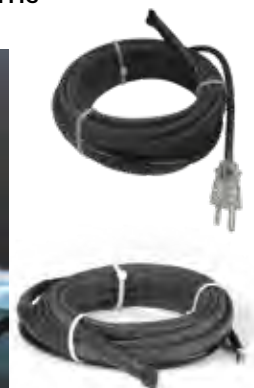
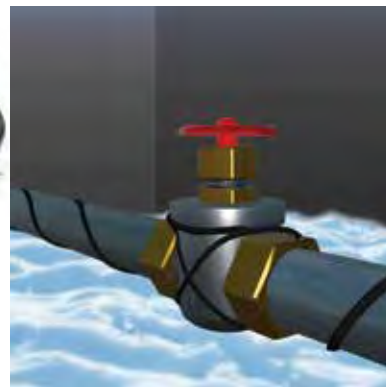
Exterior Concrete Slab Heating Systems Snow Melting



SELF-REGULATING HEATING CABLE HTR – HTM – HTLe – HTLe-PW – FSPC – JHSF

Roof and Gutter Cable Systems

Pipe Freeze Protection Systems



Floor Heating Systems

Heating Cable 3,7W	p.2
Thermostats and accessories.....	p.5
Drexma-TW Uncoupling membrane.....	p.7

Interior Concrete Slab Heating Systems

Heating Cable 6W	p.8
Thermostats and accessories.....	p.10

Exterior Concrete Slab Heating Systems Snow Melting

Exterior Heating Cable 15W	p.12
Controls, thermostats and accessories.....	p.17
Snow Melt Controller DS-9C.....	p.19
Elec-Trace control panel.....	p.20
Set of 15W cable and thermostat-controller.....	p.21

Roof and Gutter Cable Systems

11 mm HTLe Self-Regulating Heating Cable.....	p.22
13 mm HTR Self-Regulating Heating Cable.....	p.24
FSPC1, FSPC2 Self-Regulating Heating Cable	p.26
Controls, thermostats and accessories.....	p.29
Self-Regulating Heating Cables accessories	p.31

Pipe Freeze Protection Systems

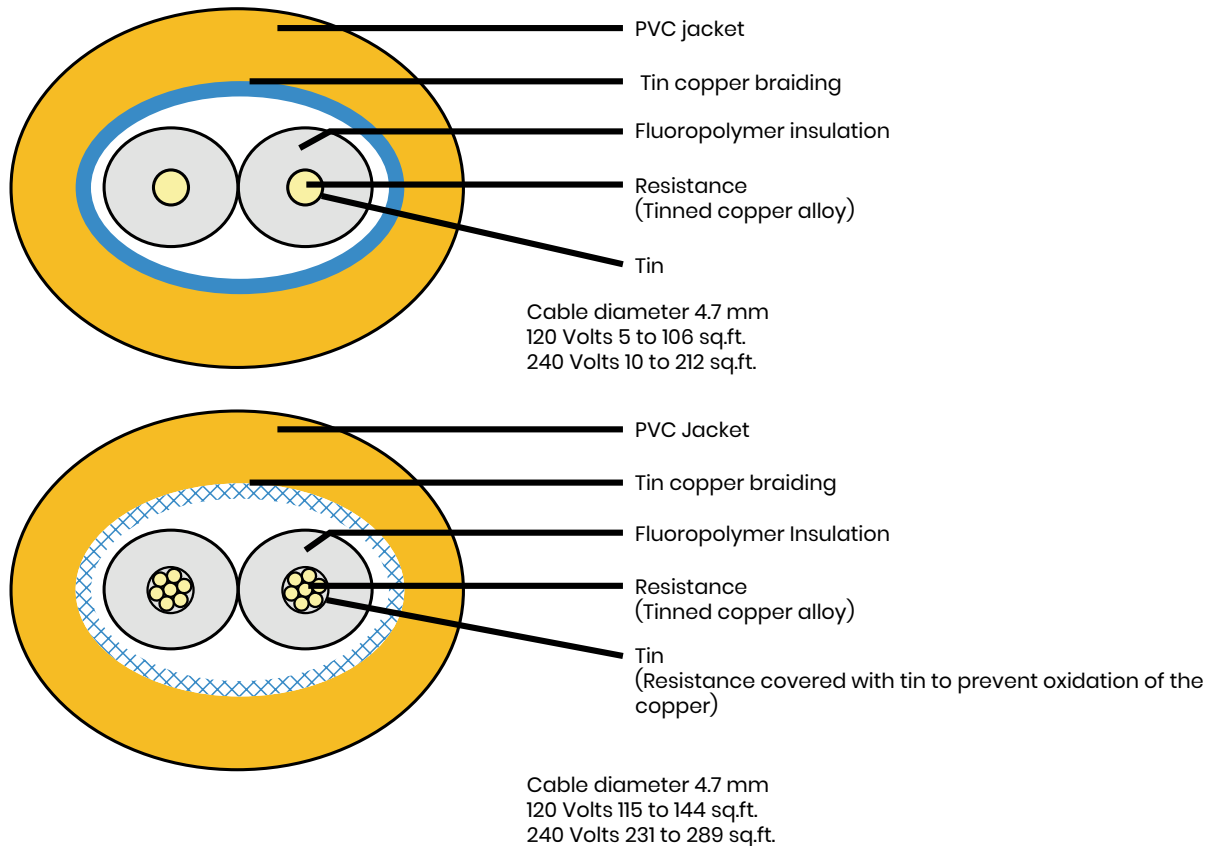
8 mm HTM Self-Regulating Heating Cable	p.34
11 mm HTLe Self-Regulating Heating Cable.....	p.37
13 mm HTR Self-Regulating Heating Cable.....	p.42
HTLe-PW Self-Regulating heating cable potable water.....	p.46
Cable accessories for HTLe-PW potable water.....	p.48
FSPC1, FSPC2 Self-Regulating Heating Cable	p.49
JHSF Self-Regulating Heating Cable.....	p.52
Controls, thermostats and accessories.....	p.54

3.7 WATT

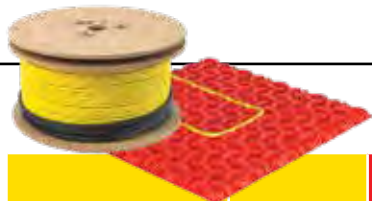


3,7 Watt cable structure for uncoupling membrane system & plastic cable guides

Elect Trace system combines the highest comfort levels with maximum energy efficiency. It's a proven technology that's safe, reliable and energy efficient. Approved for showers.



SPECIFICATION	
Cable construction	Twin conductor
Rated voltage	120V / 240V
Output	3,7w/ft (12.14W/m)
Heating element size	33' (12.2m) to 990' (243.8m)
Bending radius	1" (25.4 mm)
Cable diameter	4.7 mm
Conductor insulation	Fluoropolymer
Outer insulation	Fluoropolymer, TPE or nylon
Max. ambient temp.	85°F (30°C)
Min. installation temp.	40°F (5°C)
Cold lead length	16 AWG 10 ft. (3 m)
Approvals	CSA



3.7 WATT

Cable for uncoupling membrane

FLOOR HEATING SYSTEMS

Model	Length		DREXMA-TW WARMUP / DITRA-HEAT / PROVA-HEAT / LATICRETE				PRODESO HEAT / MAPEI / NUHEAT				Watt	Amp	Ohms
			Spacing (ft²)				Spacing (ft²)						
			2 & 3 Slots	3 Slots	3 & 4 Slots	4 Slots	2 & 3 Slots	3 Slots	3 & 4 Slots	4 Slots			
			2.9"	3.5"	4"	4.6"	3.12"	3.75"	4.38"	5"			
Ft	M	13.5 W	12 W	10.5 W	8.9 W	13.4 W	11.9 W	10.4 W	8.8 W				
3,7CWC-120V-05	16.5	5.05	4.1	4.9	5.7	6.4	4.3	5.2	6.1	6.9	60	0.5	240
3,7CWC-120V-10	33	10.1	8.1	9.7	11.4	12.8	8.7	10.4	12.2	13.9	120	1	120
3,7CWC-120V-14	49.5	15.1	12.2	14.6	17.1	19.2	13	15.6	18.2	20.8	180	1.5	80
3,7CWC-120V-19	66	20.1	16.2	19.4	22.8	25.6	17.4	20.8	24.3	27.8	240	2	60
3,7CWC-120V-24	82.5	25.1	20.3	24.3	28.5	31.9	21.7	26	30.4	34.7	300	2.5	48
3,7CWC-120V-29	99	30.2	24.3	29.2	34.2	38.3	26	31.3	36.5	41.7	360	3	40
3,7CWC-120V-34	115.5	35.2	28.4	34	39.9	44.7	30.4	36.5	42.5	48.6	420	3.5	34.3
3,7CWC-120V-38	132	40.2	32.4	38.9	45.6	51.1	34.7	41.7	48.6	55.6	480	4	30
3,7CWC-120V-43	148.5	45.3	36.5	43.8	51.3	57.5	39.1	46.9	54.7	62.5	540	4.5	26.7
3,7CWC-120V-48	165	50.3	40.6	48.6	56.9	63.9	43.4	52.1	60.8	69.4	600	5	24
3,7CWC-120V-58	198	60.4	48.7	58.3	68.3	76.7	52.1	62.5	72.9	83.3	720	6	20
3,7CWC-120V-67	231	70.4	56.8	68.1	79.7	89.4	60.8	72.9	85.1	97.2	840	7	17.1
3,7CWC-120V-77	264	80.5	64.9	77.8	91.1	102.2	69.4	83.3	97.2	111.1	960	8	15
3,7CWC-120V-87	297	90.5	73	87.5	102.5	115	78.1	93.8	109.4	125	1080	9	13.3
3,7CWC-120V-96	330	100.6	81.1	97.2	113.9	127.8	86.8	104.2	121.5	138.9	1200	10	12
3,7CWC-120V-106	363	110.6	89.2	106.9	125.3	140.6	95.5	114.6	133.7	152.8	1320	11	10.9
3,7CWC-120V-115	396	120.7	97.3	116.7	136.7	153.3	104.2	125	145.8	166.7	1440	12	10
3,7CWC-120V-125	429	130.8	105.4	126.4	148.1	166.1	112.8	135.4	158	180.6	1560	13	9.2
3,7CWC-120V-135	462	140.8	113.6	136.1	159.4	178.9	121.5	145.8	170.1	194.4	1680	14	8.6
3,7CWC-120V-144	495	150.9	121.7	145.8	170.8	191.7	130.2	156.3	182.3	208.3	1800	15	8
3,7CWC-240V-10	33	10.1	8.1	9.7	11.4	12.8	8.7	10.4	12.2	13.9	120	0.5	480
3,7CWC-240V-14	49.5	15.1	12.2	14.6	17.1	19.2	13	15.6	18.2	20.8	180	0.8	320
3,7CWC-240V-19	66	20.2	16.2	19.4	22.8	25.6	17.4	20.8	24.3	27.8	240	1	240
3,7CWC-240V-24	82.5	25.1	20.3	24.3	28.5	31.9	21.7	26	30.4	34.7	300	1.3	192
3,7CWC-240V-29	99	30.2	24.3	29.2	34.2	38.3	26	31.3	36.5	41.7	360	1.5	160
3,7CWC-240V-34	115.5	35.2	28.4	34	39.9	44.7	30.4	36.5	42.5	48.6	420	1.8	137.1
3,7CWC-240V-38	132	40.2	32.4	38.9	45.6	51.1	34.7	41.7	48.6	55.6	480	2	120
3,7CWC-240V-43	148.5	45.3	36.5	43.8	51.3	57.5	39.1	46.9	54.7	62.5	540	2.3	106.7
3,7CWC-240V-48	165	50.2	40.6	48.6	56.9	63.9	43.4	52.1	60.8	69.4	600	2.5	96
3,7CWC-240V-58	198	60.4	48.7	58.3	68.3	76.7	52.1	62.5	72.9	83.3	720	3	80
3,7CWC-240V-67	231	70.4	56.8	68.1	79.7	89.4	60.8	72.9	85.1	97.2	840	3.5	68.6
3,7CWC-240V-77	264	80.4	64.9	77.8	91.1	102.2	69.4	83.3	97.2	111.1	960	4	60
3,7CWC-240V-87	297	90.6	73	87.5	102.5	115	78.1	93.8	109.4	125	1080	4.5	53.3
3,7CWC-240V-96	330	100.6	81.1	97.2	113.9	127.8	86.8	104.2	121.5	138.9	1200	5	48
3,7CWC-240V-106	363	110.8	89.2	106.9	125.3	140.6	95.5	114.6	133.7	152.8	1320	5.5	43.6
3,7CWC-240V-115	396	120.8	97.3	116.7	136.7	153.3	104.2	125	145.8	166.7	1440	6	40
3,7CWC-240V-126	429	130.8	105.4	126.4	148.1	166.1	112.8	135.4	158	180.6	1560	6.5	36.9
3,7CWC-240V-135	462	140.8	113.6	136.1	159.4	178.9	121.5	145.8	170.1	194.4	1680	7	34.3
3,7CWC-240V-154	528	161	129.8	155.6	182.2	204.4	138.9	166.7	194.4	222.2	1920	8	30
3,7CWC-240V-173	594	181	146	175	205	230	156.3	187.5	218.8	250	2160	9	26.7
3,7CWC-240V-192	660	201.2	162.2	194.4	227.8	255.6	173.6	208.3	243.1	277.8	2400	10	24
3,7CWC-240V-212	726	221.2	178.4	213.9	250.6	281.1	191	229.2	267.4	305.6	2640	11	21.8
3,7CWC-240V-231	792	241.4	194.7	233.3	273.3	306.7	208.3	250	291.7	333.3	2880	12	20
3,7CWC-240V-250	858	261.6	210.9	252.8	296.1	332.2	225.7	270.8	316	361.1	3120	13	18.5
3,7CWC-240V-270	924	281.6	227.1	272.2	318.9	357.8	243.1	291.7	340.3	388.9	3360	14	17.1
3,7CWC-240V-289	990	301.8	243.3	291.7	341.7	383.3	260.4	312.5	364.6	416.70	3600	15	16

One floor sensor included

Cable Only

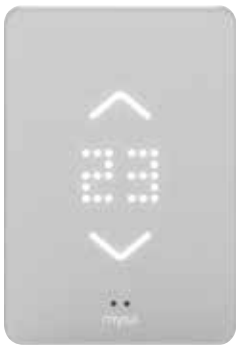
3.7 WATT

Cable with plastic guide



	Model	Length		Spacing (ft ²)			Watt	Amp	Ohms
		Ft.	M	3"	4"	5"			
				14.8 W	11.2 W	8.8 W			
120 V	3,7GCWC-120V-05	16.5	5.05	4.2	5.6	7	60	0.5	240
	3,7GCWC-120V-10	33	10.1	8.3	11.1	13.8	120	1	120
	3,7GCWC-120V-14	49.5	15.1	12.5	16.7	20.8	180	1.5	80
	3,7GCWC-120V-19	66	20.1	16.7	22.2	27.8	240	2	60
	3,7GCWC-120V-24	82.5	25.1	20.8	27.8	34.7	300	2.5	48
	3,7GCWC-120V-29	99	30.2	25	33.3	41.7	360	3	40
	3,7GCWC-120V-34	115.5	35.2	29.2	38.9	48.7	420	3.5	34.3
	3,7GCWC-120V-38	132	40.2	33.3	44.5	55.5	480	4	30
	3,7GCWC-120V-43	148.5	45.3	37.5	50	62.5	540	4.5	26.7
	3,7GCWC-120V-48	165	50.3	41.7	55.6	69.5	600	5	24
	3,7GCWC-120V-58	198	60.4	50	66.7	83.3	720	6	20
	3,7GCWC-120V-67	231	70.4	58.3	77.8	97.1	840	7	17.1
	3,7GCWC-120V-77	264	80.5	66.7	88.9	111.2	960	8	15
	3,7GCWC-120V-87	297	90.5	75	100	125	1080	9	13.3
	3,7GCWC-120V-96	330	100.6	83.3	111.1	138.8	1200	10	12
	3,7GCWC-120V-106	363	110.6	91.7	122.2	152.8	1320	11	10.9
	3,7GCWC-120V-115	396	120.7	100	133.3	166.7	1440	12	10
	3,7GCWC-120V-125	429	130.8	108.3	144.4	180.5	1560	13	9.2
3,7GCWC-120V-135	462	140.8	116.7	155.6	194.5	1680	14	8.6	
3,7GCWC-120V-144	495	150.9	125	166.7	208.3	1800	15	8	
One floor sensor included									
240 V	3,7GCWC-240V-10	33	10.1	8.3	11.1	13.8	120	0.5	480
	3,7GCWC-240V-14	49.5	15.1	12.5	16.7	20.8	180	0.8	320
	3,7GCWC-240V-19	66	20.1	16.7	22.2	27.8	240	1	240
	3,7GCWC-240V-24	82.5	25.1	20.8	27.8	34.7	300	1.3	192
	3,7GCWC-240V-29	99	30.2	25	33.3	41.7	360	1.5	160
	3,7GCWC-240V-34	115.5	35.2	29.2	38.9	48.7	420	1.8	137.1
	3,7GCWC-240V-38	132	40.2	33.3	44.5	55.5	480	2	120
	3,7GCWC-240V-43	148.5	45.3	37.5	50	62.5	540	2.3	106.7
	3,7GCWC-240V-48	165	50.2	41.7	55.6	69.5	600	2.5	96
	3,7GCWC-240V-58	198	60.4	50	66.7	83.3	720	3	80
	3,7GCWC-240V-67	231	70.4	58.3	77.8	97.1	840	3.5	68.6
	3,7GCWC-240V-77	264	80.4	66.7	88.9	111.2	960	4	60
	3,7GCWC-240V-87	297	90.6	75	100	125	1080	4.5	53.3
	3,7GCWC-240V-96	330	100.6	83.3	111.1	138.8	1200	5	48
	3,7GCWC-240V-106	364	110	91	122	152.8	1347	5.5	44
	3,7GCWC-240V-115	396	120.8	100	133.3	166.7	1440	6	40
	3,7GCWC-240V-126	429	130.8	108.3	144.4	180.5	1560	6.5	37
	3,7GCWC-240V-135	462	140.8	116.7	155.6	194.5	1680	7	34.3
	3,7GCWC-240V-154	528	161	133.3	177.8	222.2	1920	8	30
	3,7GCWC-240V-173	594	181	150	200	250	2160	9	26.7
3,7GCWC-240V-192	660	201.2	166.7	222.2	277.8	2400	10	24	
3,7GCWC-240V-212	726	221.2	183.3	244.4	305.5	2640	11	21.8	
3,7GCWC-240V-231	792	241.4	200	266.7	333.3	2880	12	20	
3,7GCWC-240V-250	858	261.6	216.7	288.9	361.2	3120	13	18.5	
3,7GCWC-240V-270	924	281.6	233.3	311.1	388.8	3360	14	17.1	
3,7GCWC-240V-289	990	301.8	250	333.3	416.7	3600	15	16	
One floor sensor included									

Thermostats and accessories



MYSA

Wi-Fi thermostat programmable and touch



WIFI

TOUCH

Smart Home Systems:
Alexa/Amazon, Apple Homekit, Google Assistant, IFTTT, SmartThings



WICOMMAND

Wi-Fi thermostat programmable and touch



WIFI

TOUCH

Smart Home Systems:
Alexa/Amazon, Google Assistant



Warmup

41EV-04-CW
41EV-04-OB

Black or White Wi-Fi thermostat/relay programmable and touch

WIFI

TOUCH

Smart Home Systems:
Alexa/Amazon, IFTTT, Creston, Control4



Warmup

41EV-03-CW
41EV-03-OB

Black or White thermostat/relay programmable and touch

TOUCH



Warmup

3IE-05-CW / 3IE-05-OB

Thermostat/relay programmable



UWG4-4999

Programmable thermostat
• Touch | WiFi



WIFI

TOUCH

The OJ Microline® app (iPhone and Android) features a variety of system control opportunities.



UDG4-4999 **UDG4-9999**

Programmable thermostat
• Touch | white
• Also available in black



TOUCH



UDG-4999

Programmable thermostat



UTN4-4999

Non-programmable thermostat



USG-4000

Power module
• With CGFI

3.7 WATT

Thermostats and accessories



TH115-AF-024T

24V low voltage thermostat without GFCI



RC840T

24V relay / 120V-240V for TH115-AF-024T and Google Nest thermostat or comparable



OHMER

Resistance tester



ETF-110-99C

Floor sensor



WF-RK

Repair kit



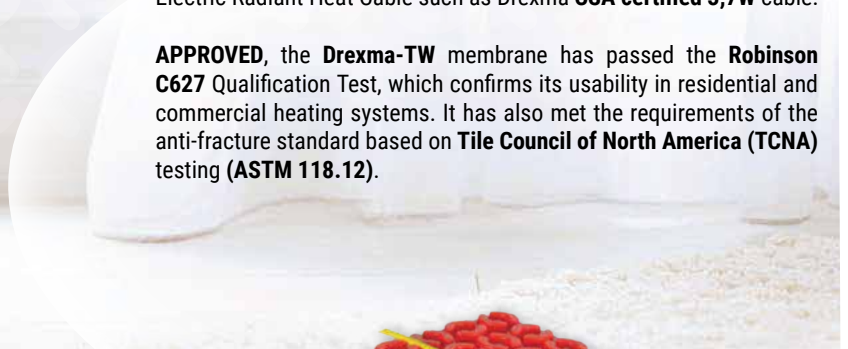
GAB/10

Plastic cable guide (10)



Drexma-TW Heat Membrane is a polypropylene uncoupling crack isolation waterproofing membrane with rounded shaped reliefs. These evenly spaced reliefs membrane is designed to embed and hold an Electric Radiant Heat Cable such as Drexma **CSA certified 3,TW** cable.

APPROVED, the **Drexma-TW** membrane has passed the **Robinson C627** Qualification Test, which confirms its usability in residential and commercial heating systems. It has also met the requirements of the anti-fracture standard based on **Tile Council of North America (TCNA)** testing (**ASTM 118.12**).



APPROVED FLOOR COVERING

- Tile
- Laminated wood*
- Vinyl floor*
- Stones
- Composite wood*

*Self-leveling with polymer, 3/8" over membrane.

- Steam management
- Increase 1/4" (5.5 mm) floor thickness

STANDARD MEMBRANE*

PEEL AND STICK MEMBRANE**

#M-80 TILES

38⁵/₈" x 30³/₈"
1/4" thick
8,1 sq.ft./sheet

#M-80



#PS-80 TILES

38⁵/₈" x 30³/₈"
1/4" thick
8,1 sq.ft./sheet

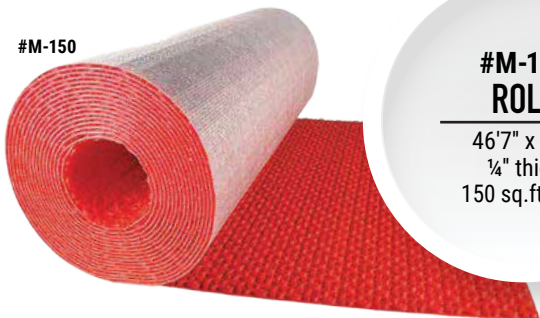
#PS-80



#M-150

#M-150 ROLL

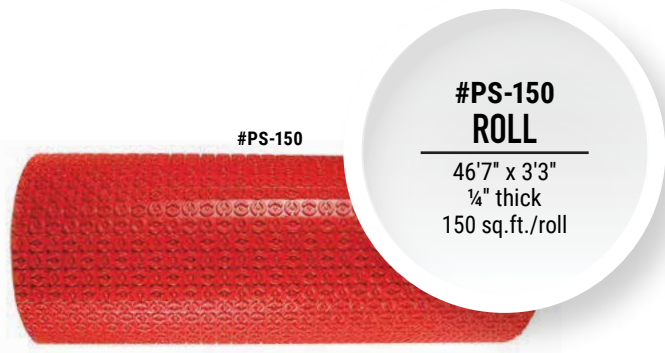
46'7" x 3'3"
1/4" thick
150 sq.ft./roll



#PS-150

#PS-150 ROLL

46'7" x 3'3"
1/4" thick
150 sq.ft./roll



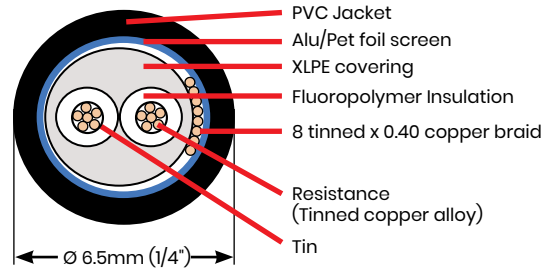
* Use a self-leveling, Laticrete NXT or Novoplan Mapei or equivalent

** Using a primer with the peel & stick membrane is highly recommended.



Thermal storage cable structure for interior embedded concrete

- Single Point Connection
- Twin Multi Braided Conductor
- Silent, Efficient And Safe
- Emits Zero EMF
- Easy And Flexible Installation
- Durable Construction
- 25 Year Limited Warranty



SPECIFICATION	
Cable construction	Twin conductor
Rated voltage	240V
Output	6W/ft (20W/m)
Heating element size	55' (16.8m) to 680' (207.3m)
Bending radius	1.5" (38mm)
Cable diameter	1/4" (6.5mm)
Conductor insulation	Fluoropolymer and XLPE
Outer insulation	PVC
Max. ambient temp.	220°F (105°C)
Min. installation temp.	40°F (5°C)
Cold lead length	10 ft. (3 m)
Approvals	CSA

Thermal storage mesh structure for interior embedded concrete



SPECIFICATION	
Cable construction	Twin conductor
Rated voltage	240V
Output	12 Watts Per Sq.Ft.
Heating element size	55' (16.8m) to 680' (207.3m)
Bending radius	1.5" (38mm)
Cable diameter	1/4" (6.5mm)
Conductor insulation	Fluoropolymer and XLPE
Outer insulation	PVC
Max. ambient temp.	220°F (105°C)
Min. installation temp.	40°F (5°C)
Cold lead length	10 ft. (3 m)
Largeur / Width	24"
Approvals	CSA



Thermal storage cable for interior embedded concrete

Model	Length		Covers (ft ²)			Output		
	Ft.	M	4"	5"	6"	Watts	Amps	Ohms
			18W	15W	12W			
6CTS-240V-0240W	40	12.2	13.3	16.7	20	240	1	240
6CTS-240V-0344W	60	18.3	20	25	30	344	1.4	167.4
6CTS-240V-0515W	90	27.4	30	37.5	45	515	2.1	111.8
6CTS-240V-0683W	115	35.1	38.3	47.9	57.5	683	2.8	84.3
6CTS-240V-0852W	145	44.2	48.3	60.4	72.5	852	3.6	67.6
6CTS-240V-1026W	175	53.3	58.3	72.9	87.5	1026	4.3	56.1
6CTS-240V-1226W	210	64	70	87.5	105	1226	5.1	47
6CTS-240V-1395W	240	73.2	80	100	120	1395	5.8	41.3
6CTS-240V-1620W	270	82.3	90	112.5	135	1620	6.8	35.6
6CTS-240V-1735W	300	91.4	100	125	150	1735	7.2	33.2
6CTS-240V-1920W	320	97.5	106.7	133.3	160.0	1920	8.0	30.0
6CTS-240V-2072W	355	108.2	118.3	147.9	177.5	2072	8.6	27.8
6CTS-240V-2304W	384	117.0	128.0	160.0	192.0	2304	9.6	25.0
6CTS-240V-2410W	415	126.5	138.3	172.9	207.5	2410	10	23.9
6CTS-240V-2652W	442	134.7	147.3	184.2	221.0	2652	11.1	21.7
6CTS-240V-2756W	470	143.3	156.7	195.8	235	2756	11.5	20.9
6CTS-240V-3000W	500	152.4	166.7	208.3	250.0	3000	12.5	19.2
6CTS-240V-3097W	530	161.5	176.7	220.8	265	3097	12.9	18.6
6CTS-240V-3360W	560	170.7	186.7	233.3	280.0	3360	14.0	17.1
6CTS-240V-3470W	595	181.4	198.3	247.9	297.5	3470	14.5	16.6

One floor sensor included



Thermal storage mesh for interior embedded concrete

Model	Length		Covers (ft ²)	Output		
	Ft.	M	6"	Watts	Amps	Ohms
			12W			
6MTS-240V-0240W	10	3.0	20	240	1	240
6MTS-240V-0344W	15	4.6	30	344	1.4	167.4
6MTS-240V-0515W	23	6.9	45	515	2.1	111.8
6MTS-240V-0683W	29	8.8	57.5	683	2.8	84.3
6MTS-240V-0852W	36	11.0	72.5	852	3.6	67.6
6MTS-240V-1026W	44	13.3	87.5	1026	4.3	56.1
6MTS-240V-1226W	53	16.0	105	1226	5.1	47
6MTS-240V-1395W	60	18.3	120	1395	5.8	41.3
6MTS-240V-1620W	68	20.6	135.0	1620	6.8	35.6
6MTS-240V-1735W	75	22.9	150	1735	7.2	33.2
6MTS-240V-1920W	80	24.4	160.0	1920	8.0	30.0
6MTS-240V-2072W	89	27.1	177.5	2072	8.6	27.8
6MTS-240V-2304W	96	29.3	192.0	2304	9.6	25.0
6MTS-240V-2410W	104	31.6	207.5	2410	10	23.9
6MTS-240V-2652W	111	33.7	221.0	2652	11.1	21.7
6MTS-240V-2756W	118	35.8	235	2756	11.5	20.9
6MTS-240V-3000W	125	38.1	250.0	3000	12.5	19.2
6MTS-240V-3097W	133	40.4	265	3097	12.9	18.6
6MTS-240V-3360W	140	42.7	280.0	3360	14.0	17.1
6MTS-240V-3470W	149	45.3	297.5	3470	14.5	16.6

One floor sensor included

6 WATT

Thermostats and accessories



MYSA

Wi-Fi thermostat programmable and touch



WIFI

TOUCH

Smart Home Systems:
Alexa/Amazon, Apple Homekit, Google Assistant, IFTTT, SmartThings



WICOMMAND

Wi-Fi thermostat programmable and touch



WIFI

TOUCH

Smart Home Systems:
Alexa/Amazon, Google Assistant



Warmup

4IEV-04-CW
4IEV-04-OB

Black or White Wi-Fi thermostat/relay programmable and touch

WIFI

TOUCH

Smart Home Systems:
Alexa/Amazon, IFTTT, Creston, Control4



Warmup

4IEV-03-CW
4IEV-03-OB

Black or White thermostat/relay programmable and touch

TOUCH



Warmup

3IE-05-CW / 3IE-05-OB

Thermostat/relay programmable



UWG4-4999

Programmable thermostat
• Touch | WiFi



WIFI

TOUCH

The OJ Microline® app (iPhone and Android) features a variety of system control opportunities.



UDG4-4999 **UDG4-9999**

Programmable thermostat
• Touch | white
• Also available in black



TOUCH



UDG-4999

Programmable thermostat



UNT4-4999

Non-programmable thermostat



USG-4000

Power module
• With CGFI



TH115-AF-024T

24V low voltage thermostat without GFCI



RC840T

24V relay / 120V-240V for TH115-AF-024T and Google Nest thermostat or comparable



ET-RK-2

24 Amp relay for 240V thermostat



OHMER

Resistance tester



ETF-110-99C

Floor sensor



ET-23

Steel Cable Guide for 6W interior embedded concrete cable (25 feet roll)



WF-RK

Repair kit



GAB/10

Plastic cable guide (10)

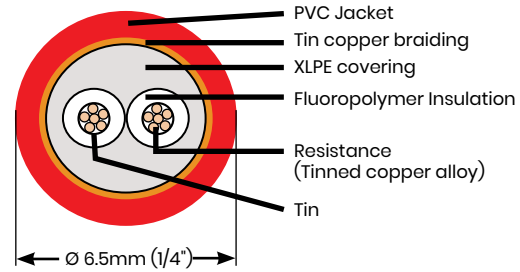
15 WATT



SafeWalk cable structure

SafeWalk Cable 15 Watt is ideal solution for exterior embedded concrete slab, pavers and asphalt applications.

- Single Point Connection
- Twin Multi Braided Conductor
- Silent, Efficient And Safe
- Emits Zero EMF
- Easy And Flexible Installation
- Durable Construction
- 10 Year Limited Warranty



SPECIFICATION	
Cable construction	Twin conductor
Rated voltage	208 / 240 / 277 / 347 / 480 / 600 V
Output	15W/ft (50W/m)
Heating element size	18' (5.5m) to 735' (224m)
Bending radius	1.5" (38mm)
Cable diameter	1/4" (6.5mm)
Conductor insulation	Fluoropolymer and XLPE
Outer insulation	TPU
Max. ambient temp.	220°F (105°C)
Min. installation temp.	40°F (5°C)
Cold lead length	20 ft. (6 m)
Approvals	CSA

SafeWalk mesh structure



SPECIFICATION	
Cable construction	Twin conductor
Rated voltage	208 / 240 / 277 / 347 / 480 / 600
Output	45W / sq.ft (480W/m ²)
Heating element size	3' (0.9m) – 122.5' (37.3m) long x 2' (0.6m) wide
Bending radius	1.5" (38mm)
Cable diameter	1/4" (6.5mm)
Conductor insulation	Fluoropolymer and XLPE
Outer insulation	TPU
Max. ambient temp.	220°F (105°C)
Min. installation temp.	40°F (5°C)
Cold lead length	20 ft (6m)
Approvals	CSA

Watt output of the 240V cable is reduced by 25% when operated at 208V (approximately 11.3W/ft.).
 Watt output of the 277V cable is reduced by 25% when operated at 240V (approximately 11.3W/ft.).
 Watt output of the 600V cable is reduced by 35% when operated at 480V (approximately 9.6W/ft.).

SafeWalk cable



Model	Length		Spacing Sq.Ft.			Output		
	Ft.	M	3"	4"	5"	Watts	Amps	Ohms
			60W/sq.ft	45W/sq.ft	36W/sq.ft			
● 15CSW-208V-0480W	32	9.8	8	10.7	13.3	480	2.3	90.1
15CSW-208V-0680W	45	13.8	11.3	15.1	18.9	680	3.3	63.6
15CSW-208V-0900W	60	18.3	15	20	25	900	4.3	48.1
● 15CSW-208V-1120W	75	22.8	18.7	24.9	31.1	1120	5.4	38.6
15CSW-208V-1420W	95	28.9	23.7	31.6	39.4	1420	6.8	30.5
15CSW-208V-1680W	112	34.1	28	37.3	46.7	1680	8.1	25.8
15CSW-208V-1920W	128	39	32	42.7	53.3	1920	9.2	22.5
15CSW-208V-2160W	144	43.9	36	48	60	2160	10.4	20
15CSW-208V-2400W	160	48.8	40	53.3	66.7	2400	11.5	18
15CSW-208V-2850W	190	57.9	47.5	63.3	79.2	2850	13.7	15.2
15CSW-208V-3300W	220	67.1	55	73.3	91.7	3300	15.9	13.1
15CSW-208V-3810W	254	77.4	63.5	84.7	105.8	3810	18.3	11.4
15CSW-208V-4250W	283	86.4	70.8	94.4	118.1	4250	20.4	10.2
15CSW-208V-4800W	320	97.5	80	106.7	133.3	4800	23.1	9
15CSW-208V-5500W	367	111.8	91.7	122.2	152.8	5500	26.4	7.9

Model	Length		Spacing Sq.Ft.			Output		
	Ft.	M	3"	4"	5"	Watts	Amps	Ohms
			60W/sq.ft	45W/sq.ft	36W/sq.ft			
15CSW-240V-0540W	36	11.0	9.0	12.0	15.0	540	2.3	106.7
15CSW-240V-0810W	55	16.8	13.8	18.3	22.9	810	3.4	71.1
15CSW-240V-1060W	70	21.3	17.5	23.3	29.2	1060	4.4	54.3
15CSW-240V-1350W	90	27.4	22.5	30	37.5	1350	5.6	42.7
15CSW-240V-1620W	110	33.5	27.5	36.7	45.8	1620	6.8	35.6
15CSW-240V-1950W	130	39.6	32.5	43.3	54.2	1950	8.1	29.5
15CSW-240V-2250W	150	45.7	37.5	50.0	62.5	2250	9.4	25.6
15CSW-240V-2780W	185	56.4	46.3	61.7	77.1	2780	11.6	20.7
15CSW-240V-3300W	220	67.1	55.0	73.3	91.7	3300	13.8	17.5
15CSW-240V-3820W	255	77.7	63.8	85	106.3	3820	15.9	15.1
15CSW-240V-4350W	290	88.4	72.5	96.7	120.8	4350	18.1	13.2
15CSW-240V-4950W	330	100.6	82.5	110	137.5	4950	20.6	11.6
15CSW-240V-5500W	370	112.8	92.5	123.3	154.2	5500	22.9	10.5
15CSW-240V-6300W	420	128.0	105.0	140.0	175.0	6300	26.3	9.1

Model	Length		Spacing Sq.Ft.			Output		
	Ft.	M	3"	4"	5"	Watts	Amps	Ohms
			60W/sq.ft	45W/sq.ft	36W/sq.ft			
● 15CSW-277V-640W	42	12.8	10.5	14	17.5	640	2.3	119.9
15CSW-277V-900W	60	18.3	15	20	25	900	3.2	85.3
15CSW-277V-1250W	85	25.9	21.3	28.3	35.4	1250	4.5	61.4
● 15CSW-277V-1500W	100	30.5	25	33.3	41.7	1500	5.4	51.2
15CSW-277V-1875W	125	38.1	31.3	41.7	52.1	1875	6.8	40.9
15CSW-277V-2250W	150	45.7	37.5	50	62.5	2250	8.1	34.1
15CSW-277V-2550W	170	51.8	42.5	56.7	70.8	2550	9.2	30.1
15CSW-277V-2850W	190	57.9	47.5	63.3	79.2	2850	10.3	26.9
15CSW-277V-3280W	220	67.1	55	73.3	91.7	3280	11.8	23.4
● 15CSW-277V-3700W	245	74.7	61.3	81.7	102.1	3700	13.4	20.7
15CSW-277V-3820W	255	77.7	63.8	85	106.3	3820	13.8	20.1

● Special order

15 WATT

SafeWalk cable



EXTERIOR CONCRETE SLAB HEATING SYSTEMS SNOW MELTING

	Model	Length		Spacing Sq.Ft.			Output		
		Ft.	M	3"	4"	5"	Watts	Amps	Ohms
				60W/sq.ft	45W/sq.ft	36W/sq.ft			
347 V	● 15CSW-347V-820W	55	16.8	13.8	18.3	22.9	820	2.4	146.8
	15CSW-347V-1120W	75	22.9	18.8	25	31.3	1120	3.2	107.5
	15CSW-347V-1550W	105	32	26.3	35	43.8	1550	4.5	77.7
	15CSW-347V-1950W	130	39.6	32.5	43.3	54.2	1950	5.6	61.7
	15CSW-347V-2350W	155	47.2	38.8	51.7	64.6	2350	6.8	51.2
	15CSW-347V-3225W	215	65.5	53.8	71.7	89.6	3225	9.3	37.3
	15CSW-347V-3600W	240	73.2	60	80	100	3600	10.4	33.4
	15CSW-347V-4100W	275	83.8	68.8	91.7	114.6	4100	11.8	29.4
	● 15CSW-347V-4600W	305	93	76.3	101.7	127.1	4600	13.3	26.2
	15CSW-347V-4750W	315	96	78.8	105	131.3	4750	13.7	25.3

	Model	Length		Spacing Sq.Ft.			Output		
		Ft.	M	3"	4"	5"	Watts	Amps	Ohms
				60W/sq.ft	45W/sq.ft	36W/sq.ft			
480 V	● 15CSW-480V-1100W	75	22.9	18.8	25	31.3	1100	2.3	209.5
	15CSW-480V-1550W	105	32	26.3	35	43.8	1550	3.2	148.6
	15CSW-480V-2150W	145	44.2	36.3	48.3	60.4	2150	4.5	107.2
	● 15CSW-480V-2600W	175	53.3	43.8	58.3	72.9	2600	5.4	88.6
	15CSW-480V-3250W	215	65.5	53.8	71.7	89.6	3250	6.8	70.9
	15CSW-480V-3900W	260	79.2	65	86.7	108.3	3900	8.1	59.1
	15CSW-480V-4400W	295	89.9	73.8	98.3	122.9	4400	9.2	52.4
	15CSW-480V-4900W	330	100.6	82.5	110	137.5	4900	10.2	47
	● 15CSW-480V-5560W	370	112.8	92.5	123.3	154.2	5560	11.6	41.4
	15CSW-480V-5700W	380	115.8	95	126.7	158.3	5700	11.9	40.4
	● 15CSW-480V-6400W	425	129.5	106.3	141.7	177.1	6400	13.3	36
	15CSW-480V-6650W	440	134.1	110	146.7	183.3	6650	13.9	34.6
	● 15CSW-480V-7650W	510	155.4	127.5	170	212.5	7650	15.9	30.1
	● 15CSW-480V-8750W	585	178.3	146.3	195	243.8	8750	18.2	26.3
	● 15CSW-480V-9900W	660	201.2	165	220	275	9900	20.6	23.3
	● 15CSW-480V-11000W	735	224	183.8	245	306.3	11000	22.9	20.9

	Model	Length		Spacing Sq.Ft.			Output		
		Ft.	M	3"	4"	5"	Watts	Amps	Ohms
				60W/sq.ft	45W/sq.ft	36W/sq.ft			
600 V	15CSW-600V-1350W	90	27.4	22.5	30	37.5	1350	2.3	266.7
	15CSW-600V-1925W	130	39.6	32.5	43.3	54.2	1925	3.2	187
	15CSW-600V-2700W	180	54.9	45	60	75	2700	4.5	133.3
	15CSW-600V-3375W	225	68.6	56.3	75	93.8	3375	5.6	106.7
	15CSW-600V-4080W	270	82.3	67.5	90	112.5	4080	6.8	88.2
	15CSW-600V-4875W	325	99.1	81.3	108.3	135.4	4875	8.1	73.8
	15CSW-600V-5550W	370	112.8	92.5	123.3	154.2	5550	9.3	64.9
	15CSW-600V-6225W	415	126.5	103.8	138.3	172.9	6225	10.4	57.8
	15CSW-600V-7100W	475	144.8	118.8	158.3	197.9	7100	11.8	50.7
	15CSW-600V-8250W	550	167.6	137.5	183.3	229.2	8250	13.8	43.6

● **Special order**



15 WATT

SafeWalk mesh

EXTERIOR CONCRETE SLAB HEATING SYSTEMS SNOW MELTING

Model	Mesh length at 24" width									Output		
	3"			4"			5"			Watts	Amps	Ohms
	60W/sq.ft	Ft.	M	45W/sq.ft	Ft.	M	36W/sq.ft	Ft.	M			
● 15MSW-208V-0480W	8	4	1.2	10.7	5.3	1.6	13.3	6.7	2	480	2.3	90.1
15MSW-208V-0680W	11.3	5.7	1.7	15.1	7.6	2.3	18.9	9.4	2.9	680	3.3	63.6
15MSW-208V-0900W	15	7.5	2.3	20	10	3	25	12.5	3.8	900	4.3	48.1
● 15MSW-208V-1120W	18.7	9.3	2.8	24.9	12.4	3.8	31.1	15.6	4.7	1120	5.4	38.6
15MSW-208V-1420W	23.7	11.8	3.6	31.6	15.8	4.8	39.4	19.7	6	1420	6.8	30.5
15MSW-208V-1680W	28	14	4.3	37.3	18.7	5.7	46.7	23.3	7.1	1680	8.1	25.8
15MSW-208V-1920W	32	16	4.9	42.7	21.3	6.5	53.3	26.7	8.1	1920	9.2	22.5
15MSW-208V-2160W	36	18	5.5	48	24	7.3	60	30	9.1	2160	10.4	20.0
15MSW-208V-2400W	40	20	6.1	53.3	26.7	8.1	66.7	33.3	10.2	2400	11.5	18.0
15MSW-208V-2850W	47.5	23.8	7.2	63.3	31.7	9.7	79.2	39.6	12.1	2850	13.7	15.2
15MSW-208V-3300W	55	27.5	8.4	73.3	36.7	11.2	91.7	45.8	14	3300	15.9	13.1
15MSW-208V-3810W	63.5	31.8	9.7	84.7	42.3	12.9	105.8	52.9	16.1	3810	18.3	11.4
15MSW-208V-4250W	70.8	35.4	10.8	94.4	47.2	14.4	118.1	59	18	4250	20.4	10.2
15MSW-208V-4800W	80	40	12.2	106.7	53.3	16.3	133.3	66.7	20.3	4800	23.1	9.0
15MSW-208V-5500W	91.7	45.8	14	122.2	61.1	18.6	152.8	76.4	23.3	5500	26.4	7.9

Model	Mesh length at 24" width									Output		
	3"			4"			5"			Watts	Amps	Ohms
	60W/sq.ft	Ft.	M	45W/sq.ft	Ft.	M	36W/sq.ft	Ft.	M			
15MSW-240V-0540W	9	4.5	1.4	12	6	1.8	15	7.5	2.3	540	2.3	106.7
15MSW-240V-0810W	13.8	6.9	2.1	18.3	9.2	2.8	22.9	11.5	3.5	810	3.4	71.1
15MSW-240V-1060W	17.5	8.8	2.7	23.3	11.7	3.6	29.2	14.6	4.4	1060	4.4	54.3
15MSW-240V-1350W	22.5	11.3	3.4	30	15	4.6	37.5	18.8	5.7	1350	5.6	42.7
15MSW-240V-1620W	27.5	13.8	4.2	36.7	18.3	5.6	45.8	22.9	7	1620	6.8	35.6
15MSW-240V-1950W	32.5	16.3	5	43.3	21.7	6.6	54.2	27.1	8.3	1950	8.1	29.5
15MSW-240V-2250W	37.5	18.8	5.7	50	25	7.6	62.5	31.3	9.5	2250	9.4	25.6
15MSW-240V-2780W	46.3	23.1	7	61.7	30.8	9.4	77.1	38.5	11.7	2780	11.6	20.7
15MSW-240V-3300W	55	27.5	8.4	73.3	36.7	11.2	91.7	45.8	14	3300	13.8	17.5
15MSW-240V-3820W	63.8	31.9	9.7	85	42.5	13	106.3	53.1	16.2	3820	15.9	15.1
15MSW-240V-4350W	72.5	36.3	11	96.7	48.3	14.7	120.8	60.4	18.4	4350	18.1	13.2
15MSW-240V-4950W	82.5	41.3	12.6	110	55	16.8	137.5	68.8	21	4950	20.6	11.6
15MSW-240V-5500W	92.5	46.3	14.1	123.3	61.7	18.8	154.2	77.1	23.5	5500	22.9	10.5
15MSW-240V-6300W	105	52.5	16	140	70	21.3	175	87.5	26.7	6300	26.3	9.1

Model	Mesh length at 24" width									Output		
	3"			4"			5"			Watts	Amps	Ohms
	60W/sq.ft	Ft.	M	45W/sq.ft	Ft.	M	36W/sq.ft	Ft.	M			
● 15MSW-277V-640W	10.5	5.3	1.6	14	7	2.1	17.5	8.8	2.7	640	2.3	119.9
15MSW-277V-900W	15	7.5	2.3	20	10	3	25	12.5	3.8	900	3.2	85.3
15MSW-277V-1250W	21.3	10.6	3.2	28.3	14.2	4.3	35.4	17.7	5.4	1250	4.5	61.4
● 15MSW-277V-1500W	25	12.5	3.8	33.3	16.7	5.1	41.7	20.8	6.4	1500	5.4	51.2
15MSW-277V-1875W	31.3	15.6	4.8	41.7	20.8	6.4	52.1	26	7.9	1875	6.8	40.9
15MSW-277V-2250W	37.5	18.8	5.7	50	25	7.6	62.5	31.3	9.5	2250	8.1	34.1
15MSW-277V-2550W	42.5	21.3	6.5	56.7	28.3	8.6	70.8	35.4	10.8	2550	9.2	30.1
15MSW-277V-2850W	47.5	23.8	7.2	63.3	31.7	9.7	79.2	39.6	12.1	2850	10.3	26.9
15MSW-277V-3280W	55	27.5	8.4	73.3	36.7	11.2	91.7	45.8	14	3280	11.8	23.4
● 15MSW-277V-3700W	61.3	30.6	9.3	81.7	40.8	12.4	102.1	51	15.6	3700	13.4	20.7
15MSW-277V-3820W	63.8	31.9	9.7	85	42.5	13	106.3	53.1	16.2	3820	13.8	20.1

● Special order

15 WATT

SafeWalk mesh



Model	Mesh length at 24" width									Output		
	3"			4"			5"			Watts	Amps	Ohms
	60W/sq.ft	Ft.	M	45W/sq.ft	Ft.	M	36W/sq.ft	Ft.	M			
● 15MSW-347V-820W	13.8	6.9	2.1	18.3	9.2	2.8	22.9	11.5	3.5	820	2.4	146.8
15MSW-347V-1120W	18.8	9.4	2.9	25	12.5	3.8	31.3	15.6	4.8	1120	3.2	107.5
15MSW-347V-1550W	26.3	13.1	4	35	17.5	5.3	43.8	21.9	6.7	1550	4.5	77.7
15MSW-347V-1950W	32.5	16.3	5	43.3	21.7	6.6	54.2	27.1	8.3	1950	5.6	61.7
15MSW-347V-2350W	38.8	19.4	5.9	51.7	25.8	7.9	64.6	32.3	9.8	2350	6.8	51.2
15MSW-347V-3225W	53.8	26.9	8.2	71.7	35.8	10.9	89.6	44.8	13.7	3225	9.3	37.3
15MSW-347V-3600W	60	30	9.1	80	40	12.2	100	50	15.2	3600	10.4	33.4
15MSW-347V-4100W	68.8	34.4	10.5	91.7	45.8	14	114.6	57.3	17.5	4100	11.8	29.4
15MSW-347V-4600W	76.3	38.1	11.6	101.7	50.8	15.5	127.1	63.5	19.4	4600	13.3	26.2
● 15MSW-347V-4750W	78.8	39.4	12	105	52.5	16	131.3	65.6	20	4750	13.7	25.3

Model	Mesh length at 24" width									Output		
	3"			4"			5"			Watts	Amps	Ohms
	60W/sq.ft	Ft.	M	45W/sq.ft	Ft.	M	36W/sq.ft	Ft.	M			
● 15MSW-480V-1100W	18.8	9.4	2.9	25	12.5	3.8	31.3	15.6	4.8	1100	2.3	209.5
15MSW-480V-1550W	26.3	13.1	4	35	17.5	5.3	43.8	21.9	6.7	1550	3.2	148.6
15MSW-480V-2150W	36.3	18.1	5.5	48.3	24.2	7.4	60.4	30.2	9.2	2150	4.5	107.2
● 15MSW-480V-2600W	43.8	21.9	6.7	58.3	29.2	8.9	72.9	36.5	11.1	2600	5.4	88.6
15MSW-480V-3250W	53.8	26.9	8.2	71.7	35.8	10.9	89.6	44.8	13.7	3250	6.8	70.9
15MSW-480V-3900W	65	32.5	9.9	86.7	43.3	13.2	108.3	54.2	16.5	3900	8.1	59.1
15MSW-480V-4400W	73.8	36.9	11.2	98.3	49.2	15	122.9	61.5	18.7	4400	9.2	52.4
15MSW-480V-4900W	82.5	41.3	12.6	110	55	16.8	137.5	68.8	21	4900	10.2	47
● 15MSW-480V-5560W	92.5	46.3	14.1	123.3	61.7	18.8	154.2	77.1	23.5	5560	11.6	41.4
15MSW-480V-5700W	95	47.5	14.5	126.7	63.3	19.3	158.3	79.2	24.1	5700	11.9	40.4
● 15MSW-480V-6400W	106.3	53.1	16.2	141.7	70.8	21.6	177.1	88.5	27	6400	13.3	36
15MSW-480V-6650W	110	55	16.8	146.7	73.3	22.4	183.3	91.7	27.9	6650	13.9	34.6
● 15MSW-480V-7650W	127.5	63.8	19.4	170	85	25.9	212.5	106.3	32.4	7650	15.9	30.1
● 15MSW-480V-8750W	146.3	73.1	22.3	195	97.5	29.7	243.8	121.9	37.1	8750	18.2	26.3
● 15MSW-480V-9900W	165	82.5	25.1	220	110	33.5	275	137.5	41.9	9900	20.6	23.3
● 15MSW-480V-11000W	183.8	91.9	28	245	122.5	37.3	306.3	153.1	46.7	11000	22.9	20.9

Model	Mesh length at 24" width									Output		
	3"			4"			5"			Watts	Amps	Ohms
	60W/sq.ft	Ft.	M	45W/sq.ft	Ft.	M	36W/sq.ft	Ft.	M			
15MSW-600V-1350W	22.5	11.3	3.4	30	15	4.6	37.5	18.8	5.7	1350	2.3	266.7
15MSW-600V-1925W	32.5	16.3	5	43.3	21.7	6.6	54.2	27.1	8.3	1925	3.2	187
15MSW-600V-2700W	45	22.5	6.9	60	30	9.1	75	37.5	11.4	2700	4.5	133.3
15MSW-600V-3375W	56.3	28.1	8.6	75	37.5	11.4	93.8	46.9	14.3	3375	5.6	106.7
15MSW-600V-4080W	67.5	33.8	10.3	90	45	13.7	112.5	56.3	17.1	4080	6.8	88.2
15MSW-600V-4875W	81.3	40.6	12.4	108.3	54.2	16.5	135.4	67.7	20.6	4875	8.1	73.8
15MSW-600V-5550W	92.5	46.3	14.1	123.3	61.7	18.8	154.2	77.1	23.5	5550	9.3	64.9
15MSW-600V-6225W	103.8	51.9	15.8	138.3	69.2	21.1	172.9	86.5	26.4	6225	10.4	57.8
15MSW-600V-7100W	118.8	59.4	18.1	158.3	79.2	24.1	197.9	99	30.2	7100	11.8	50.7
15MSW-600V-8250W	137.5	68.8	21	183.3	91.7	27.9	229.2	114.6	34.9	8250	13.8	43.6

● Special order

Controls, thermostats and accessories

OJ ELECTRONICS



ETO2-56

Ground temperature control and moist sensor



ET02-4550-US28

Snow and ice melt controller, 2 zone control



ETF-744/99

Outdoor temperature sensor for ETO2



ET02-BOX

Mounting box for ETO2



ETOK-1

Mounting kit for ETO2-56

ETI



10001

CIT-1 Aerial Snow Sensor



24219

SIT-6E Pavement Sensor (requires 23832 Pavement Sensor Housing)



23832

Pavement sensor housing for SIT-6E



23736

PD PRO

Automatic snow and ice melting system control

JOHNSON CONTROLS



A421-AEC-02C

Electronic temperature control, 10 Amps, 24V - 120V/208V/240V



A99BB-600C

Metal sensor for A421-AEC-02



A19QSC-4C

Electromechanical temperature control, remote bulb with 20 feet capillary - 22 Amps, 24V - 120V/208V/240V

ASE



DS-5C

Snow sensor controller with top mounted sensor/ Moisture & temperature/Dual 30A on 240V

DS-9C

Snow sensor controller (10 ft cable) with top mounted sensor/ Moisture & temperature/Dual 30A on 240V



DREXMA INDUSTRIES



ET-16

Concrete embedded ID plate

SCHNEIDER ELECTRIC

PECO



TRF115-005

Thermostat Stainless Exterior Concrete/Gutter Slab 120V to 277V, 5' -18°C



TRF115-007

Thermostat Copper Exterior Concrete/Gutter Slab 120V To 277V, 8' -34°C



RPF2AF7

30 Amp Power Relay - 120V 208V 240V

15 WATT

Controls, thermostats and accessories

MEITAV-TEC



PYROSENSE

Snow/Ice sensor



PYROSENSE 2/3/4

Snow/Ice Sensor with numerical address



PYROSELF

Probe sensor



PYROSELF-X-KIT

PYROSELF-X + PYROSB + RT-PYRO + IRP-PYRO



RT-PYRO

Remote control



PYROSB

Wall mounted adjustable metal fixture for the PYROSENSE



IRP-PYRO

Indoor wall IR receiver



PYRO-XC10

30 ft (10 m) communication cable extension for (IRP-Pyro)



PYROCON12

Main controller and user interface panel (24VAC)



PYROULS

Underground temperature upper limit sensor



PYRO-STAG

Staggering controller



PYROBOX 3

Power management electrical box 4 x 2 poles 30A / 277V contactors with ground fault



PYROBOX 3C

Power management electrical box 2 x 3 poles 50A / 600V contactors with ground fault



PYROBOX 1 (120V-240V)

Power management electrical box 1 pole 30A / 120V-240V contactors with ground fault



PYROBOX 5

Power management electrical box 4 x 3 poles 50A / 600V contactors with ground fault

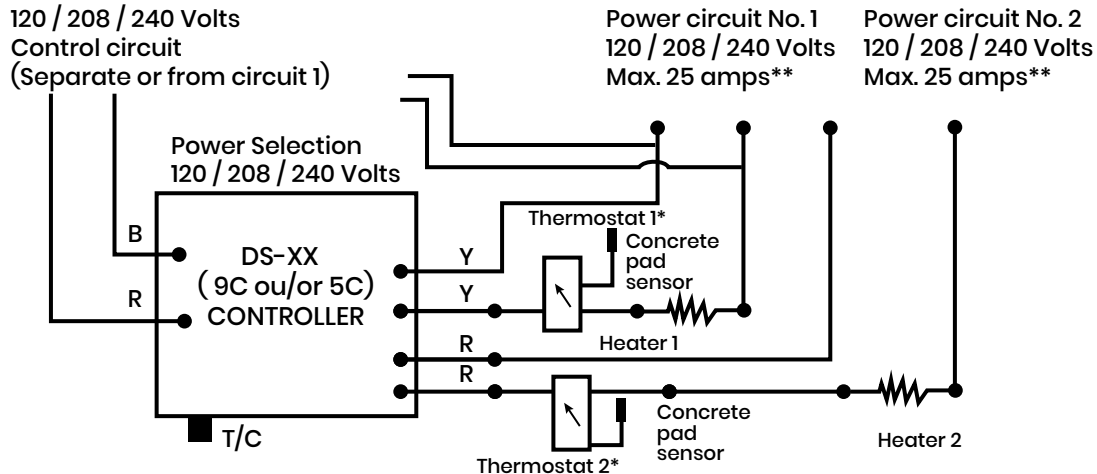
WARMUP



WSM-252W

Wifi snow melting control panel, heat up to 1,200 sqft at 240V, two 63 amp, 4-pole contacts -to handle 252 amps (no sensor required).

DS-9C or DS-5C snow melting direct load schematic with high limit thermostat

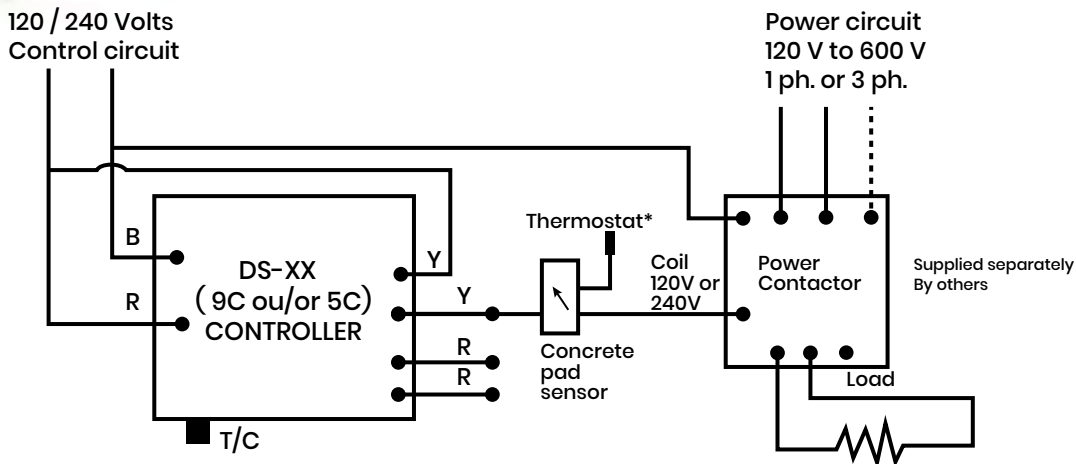


* Set point 3° C (38°F) or higher, in over temp mode. Must be over the trig temp level.
 ** Max 25A or according to thermostat capacity.

Note: Recommended dip switches setting (please refer to instruction manual for optimal settings)

SETTINGS:	LTC: OFF	RAIN: OFF	CONFIGURATION:	TRIG TEMP: 38°F (3°C)
	DEL: ON	SNOW: ON		DELAY OFF: ~3H
				SENSITIVITY: MORE

DS-9C or DS-5C snow melting controller in pilot duty mode with high limit thermostat



* Thermostat set point 3° C (38°F) or higher, in over temp mode. Must be over the trig temp level.

Note: Recommended setting for DS-9C (please refer to instruction manual for optimal settings)

SETTINGS:	LTC: OFF	RAIN: OFF	CONFIGURATION:	TRIG TEMP: 38°F (3°C)
	DEL: ON	SNOW: ON		DELAY OFF: ~3H
				SENSITIVITY: MORE

Remember, these are only suggestions. You should always check with a qualified electrician to ensure conformance with local electrical codes.

ELEC-TRACE control panel

The ELEC-TRACE control panel is a power panel for ice and snow melting and for slab heating applications. Heating cable can be driven by 120 volts to 240 volts (120 to 277 volts) or 208V-480V-600V volts, 3 phases.

The panel can be activated by a 24V or 120V control signal from a controller or a snow sensor (external). It activates the contactors to energize the heating cables.

The Ground Fault Equipment Protection circuit protects the system in case of ground fault leakage. The recommended adjustment is 30 mA minimum. It can be adjusted for nuisance tripping.



STANDARD MODELS

120/208/240V

Power panel with or without built-in PYROCON12 controller & adjustable GFEP

PP2-C4-P12
PP2-C6-P12
PP2-C8-P12
PP2-C10-P12
PP2-C12-P12

4 circuits / 240V / 1 Ph.
6 circuits / 120-208-240V / 1 Ph.
8 circuits / 120-208-240V / 1 Ph.
10 circuits / 120-208-240V / 1 Ph.
12 circuits / 120-208-240V / 1 Ph.

208/480/600V

Power panel with or without built-in PYROCON12 controller & adjustable GFEP

PP6-C2-P12
RP6-C4-P12

2 circuits / 600V / 3 Ph.
4 circuits / 600V / 3 Ph.

SPECIFICATION

NEMA 4 enclosure

Power circuits at 120VAC, 208VAC, 240VAC or 277VAC single phase

2-pole relays, rated at 30 Amp

50 Amp. contactors, 3-pole/208-480-600 VAC 3 phases

Optional 60 Amp. Contactors

Terminals for field wiring

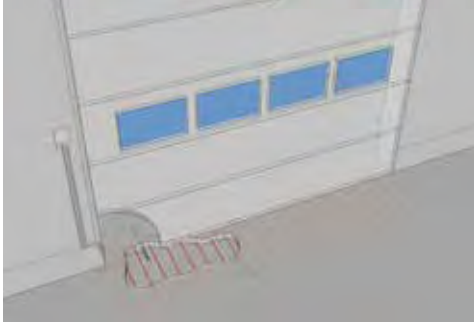
Adjustable Ground Fault Protection of Equipment GFEP to 30 mA per NEC article 426 & 427

Approvals: CSA or UL listed for the U.S. and Canada

Warranty: Two years limited warranty against defects in material, design and workmanship. Custom panels can be manufactured based on your specifications for applications like pipe tracing, snow melting, roof deicing, floor warming, tank heating, specialty heating and dens. Self-regulating and constant wattage cables can be energized and controlled efficiently.

15 WATT

Exterior concrete embedded 15W snow melting cable
SET OF 15W CABLE AND THERMOSTAT/CONTROLLER
 Ideal for driveways where ice and snow accumulate.



PECO



A421



Set of 15W cable and controller

Mesh 15W + Peco TH115-007	
Door size	Model
8 ft X 24 inch (installed 3 inch)	15MSW-208V-1120W
10 ft X 24 inch (installed 3 inch)	15MSW-208V-1420W
12 ft X 24 inch (installed 3 inch)	15MSW-208V-1420W
14 ft X 24 inch (installed 3 inch)	15MSW-208V-1680W
16 ft X 24 inch (installed 3 inch)	15MSW-208V-1920W
18 ft X 24 inch (installed 3 inch)	15MSW-208V-2160W
20 ft X 24 inch (installed 3 inch)	15MSW-208V-2400W

208 V

Mesh 15W + A421-AEC-02C	
Door size	Model
8 ft X 24 inch (installed 3 inch)	15MSW-208V-1120W
10 ft X 24 inch (installed 3 inch)	15MSW-208V-1420W
12 ft X 24 inch (installed 3 inch)	15MSW-208V-1420W
14 ft X 24 inch (installed 3 inch)	15MSW-208V-1680W
16 ft X 24 inch (installed 3 inch)	15MSW-208V-1920W
18 ft X 24 inch (installed 3 inch)	15MSW-208V-2160W
20 ft X 24 inch (installed 3 inch)	15MSW-208V-2400W

208 V

Mesh 15W + Peco TH115-007	
Door size	Model
8 ft X 24 inch (installed 3 inch)	15MSW-240V-1060W
8 ft X 24 inch (installed 3 inch)	15MSW-240V-1350W
12 ft X 24 inch (installed 3 inch)	15MSW-240V-1350W
14 ft X 24 inch (installed 3 inch)	15MSW-240V-1620W
16 ft X 24 inch (installed 3 inch)	15MSW-240V-1950W
18 ft X 24 inch (installed 3 inch)	15MSW-240V-2250W
20 ft X 24 inch (installed 3 inch)	15MSW-240V-2250W

240 V

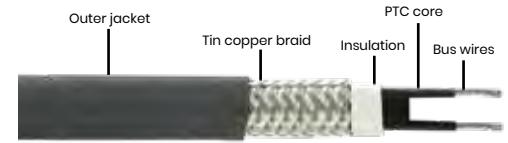
Mesh 15W + A421-AEC-02C	
Door size	Model
8 ft X 24 inch (installed 3 inch)	15MSW-240V-1060W
8 ft X 24 inch (installed 3 inch)	15MSW-240V-1350W
12 ft X 24 inch (installed 3 inch)	15MSW-240V-1350W
14 ft X 24 inch (installed 3 inch)	15MSW-240V-1620W
16 ft X 24 inch (installed 3 inch)	15MSW-240V-1950W
18 ft X 24 inch (installed 3 inch)	15MSW-240V-2250W
20 ft X 24 inch (installed 3 inch)	15MSW-240V-2250W

240 V



11 mm HTLe Self Regulating Heating Cable

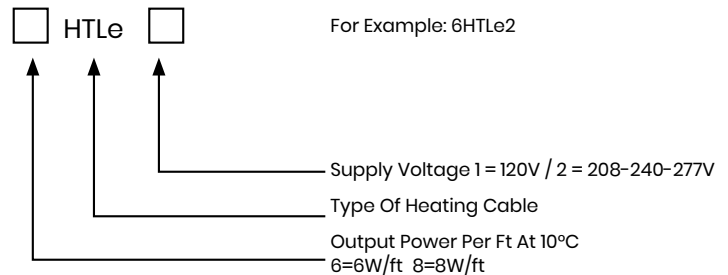
HTLe cables are ideal for roof & gutter de-icing and help prevent ice damage caused by ice dams. They promote free flow of melt water through gutters and downspouts to ground level and drains, for residential and commercial applications. These cables use the latest self-regulating technology adjusting heat output according to the ambient temperature, making them energy efficient and cost effective.



- Cable can be cut to desired length and overlapped without risk of overheating.
- Suitable for metal or plastic surfaces.
- Low installation and maintenance cost.
- Tinned copper braid provides additional protection to the cable core.
- Flame retardant thermoplastic outer jacket option, protects against certain chemical solution, abrasion and impact damage.

Product number

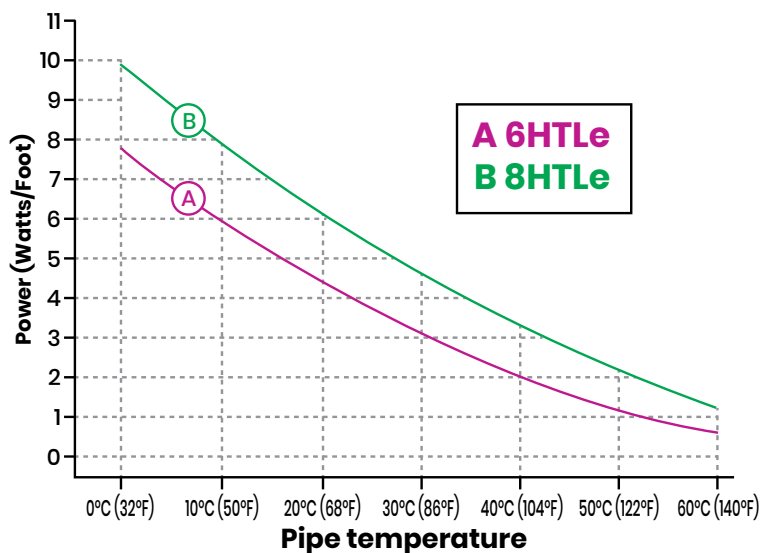
MODEL	WATTS	VOLTAGE
6HTLe1, 6HTLe2	6	120V/240V
8HTLe1, 8HTLe2	8	120V/240V



SPECIFICATION	
Jacket	Thermoplastic
Chemical Resistance	Organic and corrosive solutions
Nominal Thickness (mm)	6
Nominal Width (mm)	10.9
Minimum Bending Radius (mm)	36
Weight (kg/100m)	11
Electrical Classification	Non-Hazardous
Service Voltage	120V/240V (208-277V)
Max. maintain or continuous exposure temperature (power on)	65°C (150°F)
Max. Intermittent Exposure	85°C (185°F)
Minimum Installation Temperature	-40°C (-40°F)
Protective Braid resistance	<18.2 Ω/km
Bus Wire Gauge	16 AWG
Approvals	CSA / UL

Power output curves

Nominal power output at 240V HTR cable



	Adjustement Factors			
	Power Output		Circuit Length	
	208V	277V	208V	277V
6HTLe	0.86	1.10	0.93	1.10
8HTLe	0.89	1.08	0.92	1.11

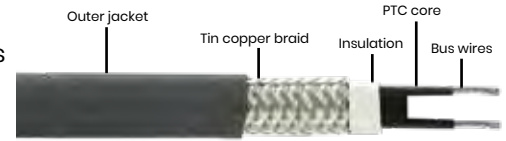
Maximum Length Based On Circuit Breaker Size

Minimum Start-up Temp.	CB Size	6HTLe		8HTLe	
	Amps	120V ft	240V ft	120V ft	240V ft
10°C (50°F)	15	200	405	150	300
	20	235	470	200	400
	30	245	490	210	420
	40	245	490	210	420
0°C (32°F)	15	200	405	150	300
	20	235	470	200	400
	30	245	490	210	420
	40	245	490	210	420
-10°C (14°F)	15	160	320	140	280
	20	200	400	150	300
	30	235	475	150	410
	40	245	490	210	420
-18°C (0°F)	15	125	255	100	200
	20	170	340	130	265
	30	235	475	200	400
	40	245	490	210	420
-29°C (-20°F)	15	110	225	85	175
	20	150	300	115	235
	30	220	440	175	350
	40	245	490	210	420
-40°C (-40°F)	15	100	195	80	155
	20	130	260	105	210
	30	195	400	155	315
	40	240	480	210	420



13 mm HTR Self Regulating Heating Cable

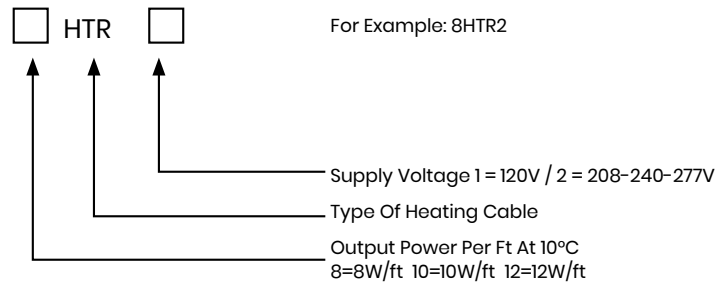
HTR cables are ideal for roof & gutter de-icing and help prevent ice damage caused by ice dams. They promote free flow of melt water through gutters and downspouts to ground level and drains, for residential and commercial applications. These cables use the latest self-regulating technology adjusting heat output according to the temperature, making them energy efficient and cost effective.



- Cable can be cut to desired length and overlapped without risk of overheating.
- Suitable for metal or plastic surfaces.
- Low installation and maintenance cost.
- Tinned copper braid provides additional protection to the cable core.
- Flame retardant thermoplastic outer jacket option, protects against certain chemical solution, abrasion and impact damage.

Product number

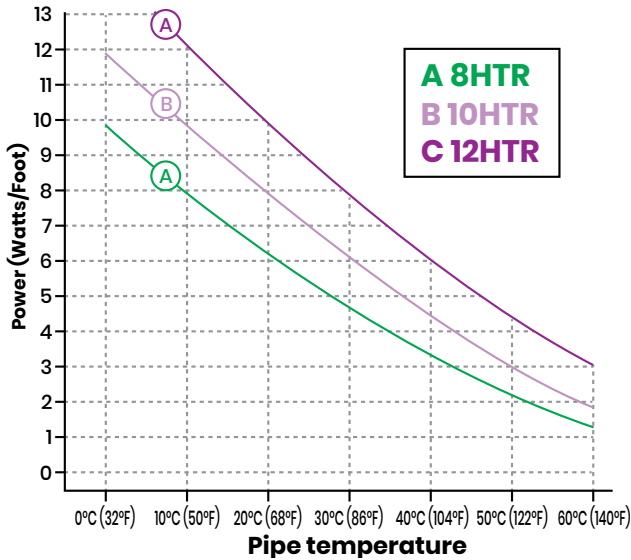
MODEL	WATTS	VOLTAGE
8HTR1, 8HTR2	8	120V/240V
10HTR1, 10HTR2	10	120V/240V
12HTR1, 12HTR2	12	120V/240V



SPECIFICATION	
Jacket	Thermoplastic
Chemical Resistance	Aqueous Inorganic Solutions
Nominal Thickness (mm)	6
Nominal Width (mm)	12.6
Minimum Bending Radius (mm)	36
Weight (kg/100m)	13.8
Electrical Classification	Non-Hazardous
Service Voltage	120V/240V (208-277V)
Max. maintain or continuous exposure temperature (power on)	65°C (150°F)
Max. Intermittent Exposure	85°C (185°F)
Minimum Installation Temperature	-40°C (-40°F)
Protective Braid resistance	<18.2 Ω/km
Bus Wire Gauge	16 AWG
Approvals	CSA / UL

Power output curves

Nominal power output at 240V HTR cable



	Adjustement Factors			
	Power Output		Circuit Length	
	208V	277V	208V	277V
8HTR	0.89	1.08	0.92	1.11
10HTR	0.89	1.08	0.92	1.11
12HTR	0.89	1.08	0.92	1.11

Maximum Length Based On Circuit Breaker Size

Minimum Start-up Temp.	CB Size	8HTR		10HTR		12HTR	
	Amps	120V ft	240V ft	120V ft	240V ft	120V ft	240V ft
10°C (50°F)	15	150	300	120	240	80	160
	20	200	400	160	315	140	270
	30	210	420	182	360	150	310
	40	210	420	182	360	150	310
0°C (32°F)	15	150	300	105	210	75	150
	20	200	400	140	280	130	260
	30	210	420	170	340	145	290
	40	210	420	180	360	150	310
-10°C (14°F)	15	140	280	95	190	70	140
	20	150	300	125	250	115	230
	30	205	410	165	330	142	285
	40	210	420	180	360	150	310
-18°C (0°F)	15	100	200	80	160	60	120
	20	130	265	110	210	80	160
	30	200	400	160	325	140	280
	40	210	420	180	360	150	310
-29°C (-20°F)	15	85	175	70	145	50	105
	20	115	235	95	190	65	140
	30	175	350	140	285	110	225
	40	210	420	180	360	150	310
-40°C (-40°F)	15	80	155	90	125	45	90
	20	105	210	85	170	60	125
	30	155	315	125	255	90	190
	40	210	420	170	340	140	280

FSPC1, FSPC2



FSPC (standard 10 feet cold lead) terminated and plug-in self-regulating heating cable 120V & 240V

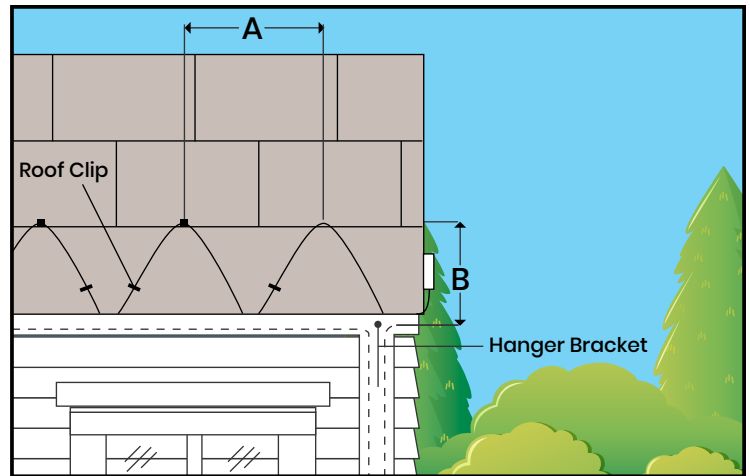


OPTIONAL ON REQUEST :

Longer cold lead are available up to 50 feet.

These heating cables provide, roofs and gutter systems protection from damage due to freezing, and can be used in residential and commercial applications. The cables automatically adjust heat output according to the ambient temperature conditions. Under cooler conditions the heat output increases, and as the temperature rises the output decreases to save on energy. The cables are available in various pre-assembled lengths.

- Comes in pre-cut lengths, sealed with cap and plug (120V only)
- Suitable for plastic or metal gutters and downspouts.
- Suitable for roofs, shingled and metal.
- Will not overheat if overlapped.



SPECIFICATION

SPECIFICATION	
Jacket	Thermoplastic
Chemical Resistance	Aqueous inorganic solutions
Nominal Cable Width (in/mm)	0.23 / 5.8
Nominal Cable Thickness (in/mm)	0.42 / 10.6
Bus Wire Gauge (AWG)	16
Cold Lead Length (ft/m)	10' / 3.048 m
Min. Circuit Breaker Size (Amps)	15
Maximum Exposure temperature (°F/°C)	185/85
Electrical Classification	Non Hazardous
Approvals	ETL / UL

120 V

Model	Length		Cold lead size AWG	Output on pipe @50°F/10°C	Output on pipe @40°F/5°C	Output on Snow-Ice @32°F/0°C
	Ft.	M				
FSPC1-6	6	1.82	18	36W	43W	57W
FSPC1-12	12	3.65	18	72W	86W	114W
FSPC1-18	18	5.48	18	108W	130W	171W
FSPC1-24	24	7.31	18	144W	173W	228W
FSPC1-37	37	11.28	18	225W	270W	356W
FSPC1-50	50	15.24	16	300W	360W	475W
FSPC1-62	62	18.90	16	375W	450W	594W
FSPC1-75	75	22.86	16	450W	540W	712W
FSPC1-87	87	26.52	16	525W	630W	831W
FSPC1-100	100	30.48	16	600W	720W	950W
FSPC1-112	112	34.14	14	675W	810W	1064W
FSPC1-125	125	38.10	14	750W	900W	1187W
FSPC1-137	137	41.76	14	825W	990W	1301W
FSPC1-150	150	45.73	14	900W	1080W	1245W

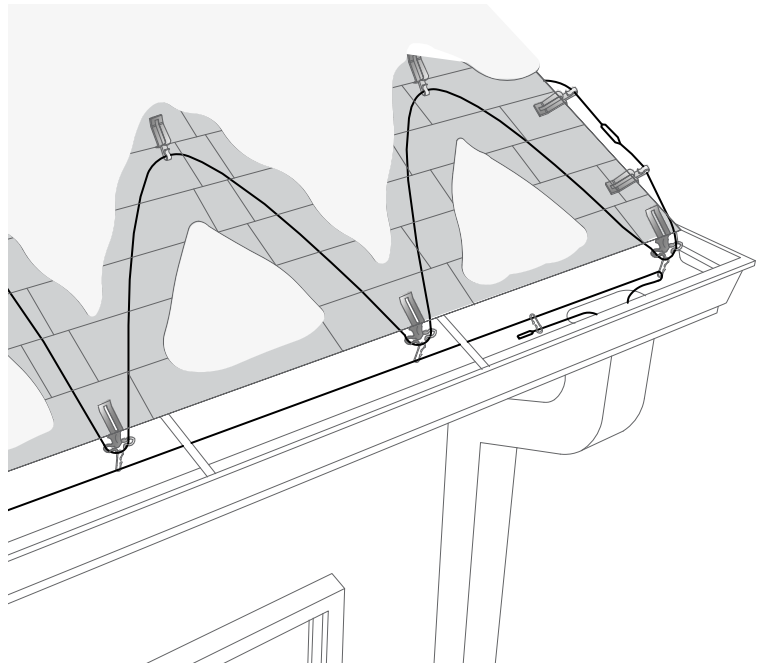
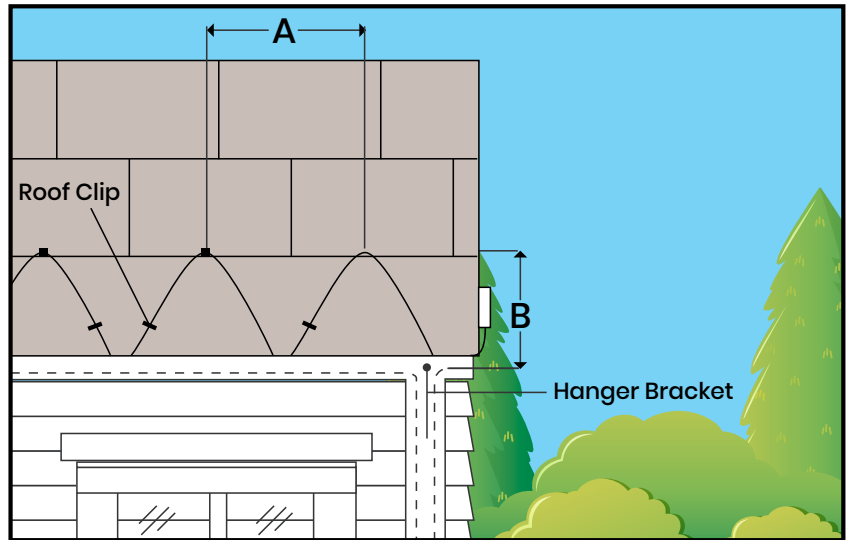
240 V

Model	Length		Cold lead size AWG	Output on pipe @50°F/10°C	Output on pipe @40°F/5°C	Output on Snow-Ice @32°F/0°C
	Ft.	M				
FSPC2-6	6	1.82	18	36W	43W	57W
FSPC2-12	12	3.65	18	72W	86W	114W
FSPC2-18	18	5.48	18	108W	130W	171W
FSPC2-24	24	7.31	18	144W	173W	228W
FSPC2-37	37	11.28	18	225W	270W	356W
FSPC2-50	50	15.24	18	300W	360W	475W
FSPC2-62	62	18.90	18	375W	450W	594W
FSPC2-75	75	22.86	18	450W	540W	712W
FSPC2-87	87	26.52	18	525W	630W	831W
FSPC2-100	100	30.48	16	600W	720W	950W
FSPC2-112	112	34.14	16	675W	810W	1064W
FSPC2-125	125	38.10	16	750W	900W	1187W
FSPC2-137	137	41.76	16	825W	990W	1301W
FSPC2-150	150	45.73	16	900W	1080W	1245W
FSPC2-162	162	49.39	16	975W	1170W	1544W
FSPC2-175	175	53.35	16	1050W	1260W	1622W
FSPC2-200	200	60.97	16	1200W	1440W	1900W
FSPC2-225	225	68.59	14	1350W	1620W	2137W
FSPC2-250	250	76.21	14	1500W	1800W	2375W

FSPC1, FSPC2

FSPC self-regulating heating cable installation

1. Determine length of roof overhang using Table 1, choose appropriate "A Spacing Factor" for either shingled or metal roof.
2. Determine the length of roof edge, gutters and downspout.
3. Calculate cable required using the following.
 Cable required =
 [Roof edge length x spacing factor]
 + [Gutter length] + [2 x Downspout length] + 1ft.
4. Install as in diagram using the "A Spacing Factor" and the loop height B. Note cable runs up and down the full length of the downspout.



	Roof over hang	A - Spacing Factor (ft)		B - Loop height (in)	
		Shingle	Metal	Shingle	Metal
TABLE 1	None	1.9	2.5	18	18
	12"	2	2.5	18	24
	24"	2.7	3.5	30	36
	36"	3.6	4.5	42	48
	48"	4.5	5.5	54	60

ROOF & GUTTER CABLE SYSTEMS

Controls, thermostats and accessories

MEITAV-TEC



PYROSENSE
Snow/ice sensor



PYROSENSE 2/3/4
Snow/ice Sensor with numerical address



PYROSELF
Probe sensor



PYROSELF-X-KIT
PYROSELF-X + PYROSB
+ RT-PYRO + IRP-PYRO



RT-PYRO
Remote control



PYROSB
Wall mounted adjustable metal fixture
for the PYROSENSE



IRP-PYRO
Indoor wall IR receiver



PYRO-XC10
30 ft (10 m)
communication cable
extension for (IRP-Pyro)



PYROCON12
Main controller
and user interface panel
(24VAC)



PYROULS
Underground
temperature upper
limit sensor



PYRO-STAG
Staggering controller



PYROBOX 3
Power management electrical box
4 x 2 poles 30A / 277V contactors with
ground fault



PYROBOX 3C
Power management electrical box 2 x 3 poles
50A / 600V contactors with ground fault



PYROBOX 5
Power management electrical box
4 x 3 poles 50A / 600V contactors
with ground fault



PYROBOX 1 (120V-240V)
Power management electrical
box 1 pole
30A / 120V-240V contactors
with ground fault



FPC-02-240V
Freeze protection controller and power
panel 30 Amp; 240 Volts. Variable GFEP

ROOF & GUTTER CABLE SYSTEMS

Controls, thermostats and accessories

ASE



DS-9C

Snow sensor controller (10 ft cable) with top mounted sensor/Moisture & temperature/ Dual 30A on 240V

ETI



11351

GIT-1
Gutter De-Icing sensor



23736

PD PRO
Automatic snow and ice melting system control

ETI



25169

FPT 130
Single-Point Freeze Protection Control; GFEP, CM, 100, 277 VAC, 30 A



25170

GPT 130
Single-Point general purpose heat-trace control



25171

GPT 230
Dual-Point Heat-Trace Control; GFEP, CM, 100-277 VAC, 30 A

OJ ELECTRONICS



ETOR-55-US224

Gutter moist sensor must be paired with the ETF744/99



ET02-4550-US28

Snow and ice melt controller, 2 zone control



ET02-BOX

Mounting box for ETO2



ETF-744/99

Outdoor temperature sensor for ETO2

JOHNSON CONTROLS



A19QSC-4C

Electromechanical temperature control, remote bulb with 20 feet capillary - 22 Amps, 24V - 120V/208V/240V

DREXMA INDUSTRIES



120VCUBE

Thermocube activates at 3°C/38°C - Max 1800W for 120V

A421-AEC-02C

Electronic Temperature Control, 10 Amps, 24V - 120V/208V/240V



ROOF & GUTTER CABLE SYSTEMS

Self-regulating heating cables accessories



ET-00

Power connection kit



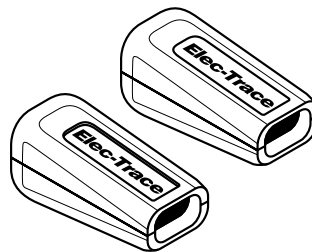
ET-01

Power Connection Kit
+ End Seal Kit



ET-05

Gel End Seal Cap
8mm Cable only (HTM)



ET-07

Gel End Seal
11 mm and 13 mm (HTR)



ET-08

Plug In Cord Set 120V
125Ft Of Cable Max.



ET-10

Splice Tee Kit



ET-12

End Seal Kit for HTLe-HTR



ET-13

Roof Clip (PK. 10)



ET-14

Roof Clip for shake,
shingle, metal roof
(PK. 50)



ET-15

Hanger For Downspout

ROOF & GUTTER CABLE SYSTEMS

Self-regulating heating cables accessories



ET-19
4 Rays Roof
Decing Drain (4RRDD)



ET-20
6 Rays Roof
Decing Drain (6RRDD)



ET-25A-GRIP CLIP
Aluminium roof Grip Clip nail free for asphalt shingles, slate & cedar roofs (PK 25)



ET-25B-GRIP CLIP
Black roof Grip Clip nail free for asphalt shingles, slate & cedar roofs (PK 25)



ET-S5-SR
Clip for S-5 standing metal
seam clamp (PK 10)



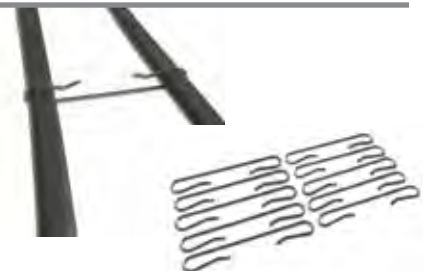
ET-S5SCLAMP 5
Clamp for standing metal
seam roofs (PK 5)



ET-IDP-100-C
Copper slate roof clip 16" x 2"



ET-IDP-210-A
Flat clip aluminium
3.5" long x 2" wide (PK 10)

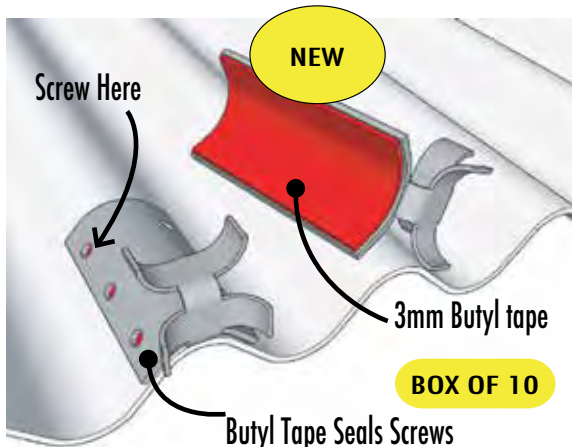


ET-RSC-555
Cable separator clip, wire (PK 10)

ROOF ACCESSORIES

Self-regulating heating cables accessories

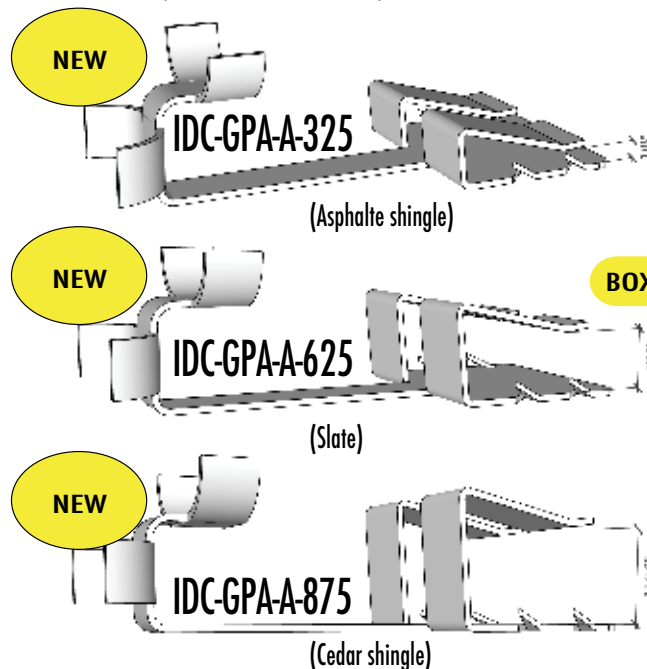
Corrugated Clip: JS-222



For use on all traditional corrugated metal roof systems. Self-tapping screws secure clip to roof.

Grip Clip IDC-GPA

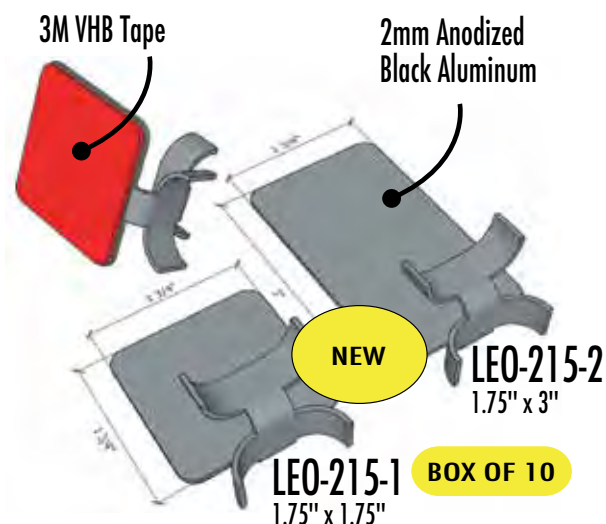
Choice of three sizes (0.325" - 0.625" - 0.875")



Same reliable performance as the original, now available for thicker roofing materials including wood, synthetics and more. No tools, no fasteners, fast and sturdy.

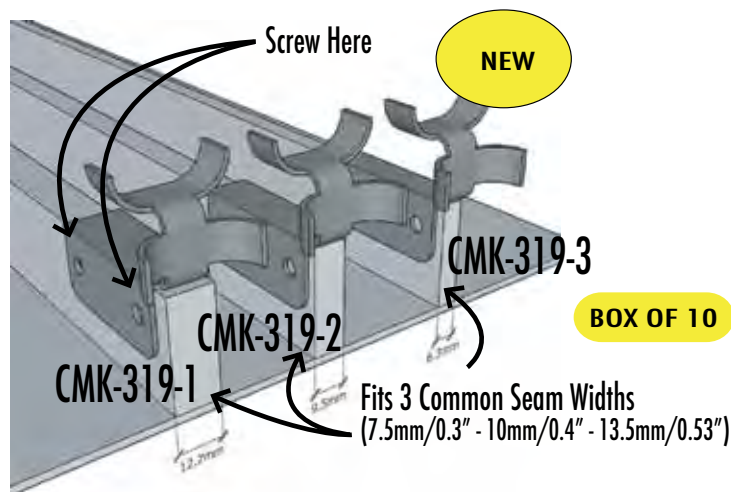
3 models: IDC-GPA-A-325 (0.325" H) - IDC-GPA-A-625 (0.625" H) - IDC-GPA-A-875 (0.875" H)

Sticky Clip: LEO-215



Heavy duty clip for use on metal roof systems. Fits in the 'flats' between the seams and ridges of all major metal roofing panels. No screws or mechanical fastening required.

Standing Seam Clip: CMK-319



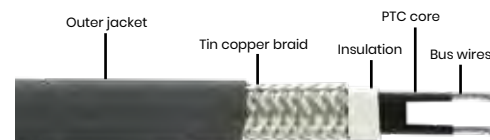
For use on standard standing seam metal roofs to secure heat cable. Self-tapping screws secure clips to standing metal roof seams.

3 Models:
 CMK-319-1 (7.5mm width)
 CMK-319-2 (10mm width)
 CMK-319-3 (13.5mm width)



8 mm HTM Self Regulating Heating Cable

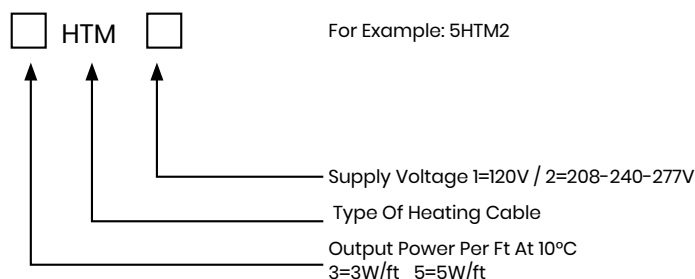
HTM cables are ideal for freeze protection & process temperature maintenance on pipe, tanks and valves for residential and commercial applications. These cables use the latest self-regulating technology adjusting heat output according to the ambient temperature, making them energy efficient and cost effective.



- Cable can be cut to desired length and overlapped without risk of overheating.
- Suitable for metal or plastic surfaces.
- Low installation and maintenance cost.
- Tinned copper braid provides additional protection to the cable core.
- Flame retardant thermoplastic outer jacket option, protects against certain chemical solution, abrasion and impact damage.

Product number

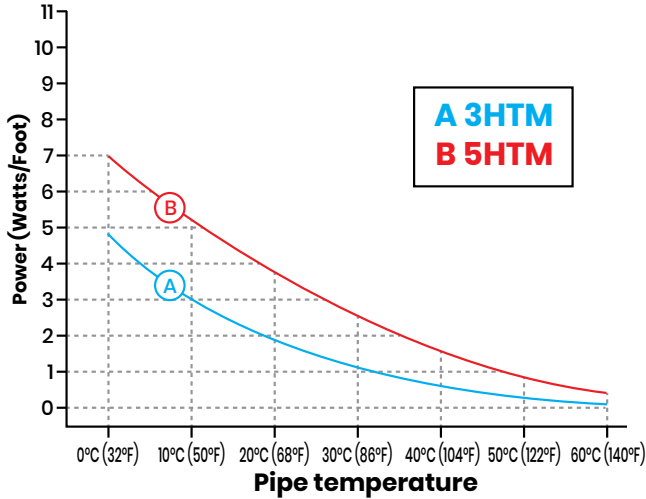
MODEL	WATTS	VOLTAGE
3HTM1, 3HTM2	3	120V/240V
5HTM1, 5HTM2	5	120V/240V



SPECIFICATION	
Jacket	Thermoplastic
Chemical Resistance	Aqueous inorganic solutions
Nominal Thickness (mm)	5.7
Nominal Width (mm)	8.3
Minimum Bending Radius (mm)	34
Weight (kg/100m)	7.5
Electrical Classification	Non-Hazardous
Service Voltage	120V / 240V (208, 277V)
Max. maintain or continuous exposure temperature (power on)	65°C (150°F)
Max. Intermittent Exposure	85°C (185°F)
Minimum Installation Temperature	-40°C (-40°F)
Protective Braid resistance	<18.2 Ω/km
Bus Wire Gauge	20 AWG
Approvals	ETL

Power output curves

Nominal power output at 240V when HTM is installed on insulated metal pipes



	Adjustement Factors			
	Power Output		Circuit Length	
	208V	277V	208V	277V
3HTM	0.82	1.13	0.96	1.08
5HTM	0.85	1.12	0.94	1.09

Maximum Length Based On Circuit Breaker Size

Minimum Start-up Temp.	CB Size	3HTM		5HTM	
	Amps	120V ft	240V ft	120V ft	240V ft
10°C (50°F)	10	160	320	107	214
	15	160	320	127	254
	20	160	320	133	266
0°C (32°F)	15	160	320	107	214
	20	160	320	127	251
	30	160	320	133	266
-10°C (14°F)	15	120	240	95	190
	20	130	260	105	210
	30	160	320	120	240
-18°C (0°F)	15	107	214	73	146
	20	120	240	93	186
	30	140	280	113	226
-29°C (-20°F)	15	88	176	60	120
	20	107	214	80	160
	30	133	266	107	214
-40°C (-40°F)	15	73	146	53	106
	20	93	186	67	134
	30	120	240	93	186



8 mm HTM Self Regulating Heating Cable

Cable length calculation and recommendation

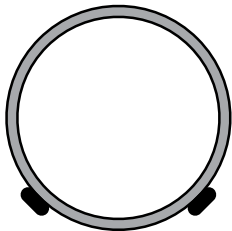
Based on the diameter and length of standard pipes, we recommend cable lengths according to the following table.

Pipe diameter	Pipe material	Pipe length										
		3'	5'	10'	15'	20'	30'	40'	50'	60'	70'	80'
0.5"	Metal	3'	6'	12'	15'	24'	30'	40'	60'	60'	80'	80'
	Plastic	3'	6'	12'	15'	24'	30'	40'	60'	60'	80'	80'
0.75"	Metal	3'	6'	12'	15'	24'	30'	40'	60'	60'	80'	80'
	Plastic	3'	6'	12'	15'	24'	30'	40'	60'	60'	80'	80'
1"	Metal	3'	6'	12'	15'	24'	30'	40'	60'	60'	80'	80'
	Plastic	3'	6'	12'	15'	24'	30'	40'	60'	60'	80'	80'
1.5"	Metal	3'	6'	12'	15'	24'	30'	40'	60'	60'	80'	80'
	Plastic	6'	12'	24'	30'	40'	60'	80'				
2"	Metal	6'	12'	24'	30'	40'	60'	80'				
	Plastic	6'	12'	24'	30'	40'	60'	80'				
3"	Metal	6'	12'	24'	30'	40'	60'	80'				
	Plastic	6'	12'	24'	30'	40'	60'	80'				

You can use the number in the above chart to multiply the length of your pipe to pick up the right products. For example, if your pipe is metal, the length is 20ft, the diameter of your pipe is 1" and the lowest ambient temperature is -20°F in your area, you will find the "1.3" based on the chart. You can use $20\text{ft} \times 1.3 = 26\text{ft}$. You can choose our 30ft JHSF preassemble heating cable (Pick the length which is close to the number which you calculated).

HTM can be installed straight along the pipe for some small pipes. At lower temperatures, for longer pipes, the cable needs to be installed by spiral to ensure the pipe can get the adequate heat from the cable to avoid the freezing.

NOTE: For each valve or spigot on pipe an additional foot of the cable is needed. When the cable is longer than the pipe, spiral the excess cable around the pipe length evenly.



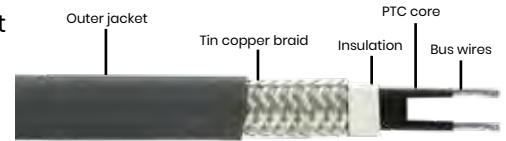
Important:

If the cable is longer than the pipe, it must be spiraled around it, evenly distributed. If twice the length, double trace the cable straight on the pipe in a 4 and 7 o'clock position. Apply a minimum insulation thickness of one (1) inch.



11 mm HTLe Self Regulating Heating Cable

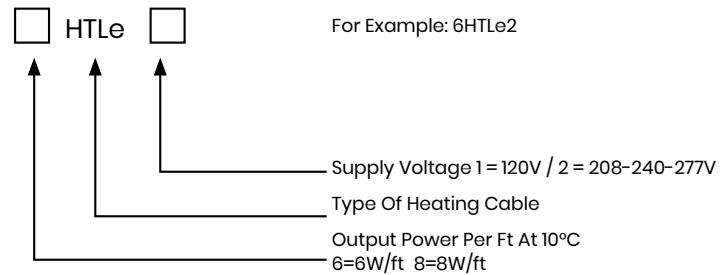
HTLe cables are ideal for freeze protection & process temperature maintenance on pipe, tanks and valves for residential and commercial applications. These cables use the latest self-regulating technology adjusting heat output according to the ambient temperature, making them energy efficient and cost effective.



- Cable can be cut to desired length and overlapped without risk of overheating.
- Suitable for metal or plastic surfaces.
- Low installation and maintenance cost.
- Tinned copper braid provides additional protection to the cable core.
- Flame retardant thermoplastic outer jacket option, protects against certain chemical solution, abrasion and impact damage.

Product number

MODEL	WATTS	VOLTAGE
6HTLe1, 6HTLe2	6	120V/240V
8HTLe1, 8HTLe2	8	120V/240V

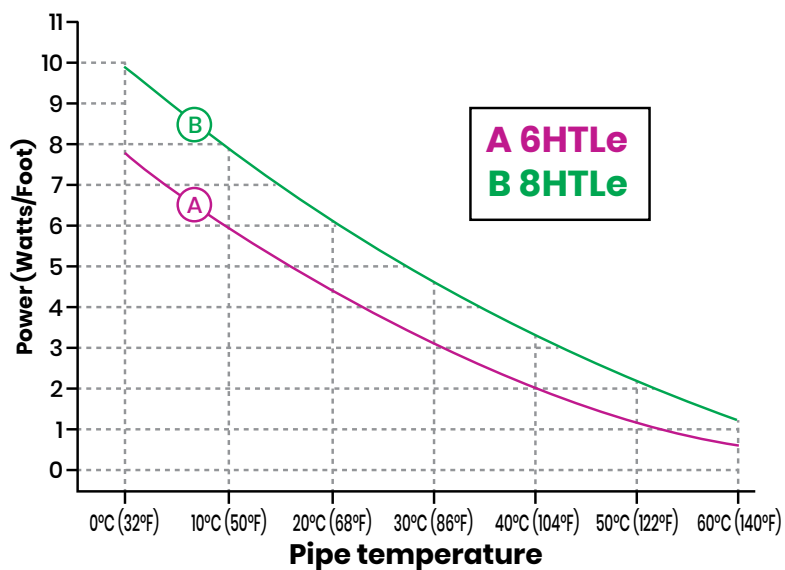


SPECIFICATION	
Jacket	Thermoplastic
Chemical Resistance	Organic and corrosive solutions
Nominal Thickness (mm)	6
Nominal Width (mm)	10.9
Minimum Bending Radius (mm)	36
Weight (kg/100m)	11
Electrical Classification	Non-Hazardous
Service Voltage	120V / 240V (208-277V)
Max. maintain or continuous exposure temperature (power on)	65°C (150°F)
Max. Intermittent Exposure	85°C (185°F)
Minimum Installation Temperature	-40°C (-40°F)
Protective Braid resistance	<18.2 Ω/km
Bus Wire Gauge	16 AWG
Approvals	CSA / UL

HTLe

11 mm HTLe Self Regulating Heating Cable

Power output curves



	Adjustment Factors			
	Power Output		Circuit Length	
	208V	277V	208V	277V
6HTLe	0.86	1.10	0.93	1.10
8HTLe	0.89	1.08	0.92	1.11

Maximum Length Based On Circuit Breaker Size

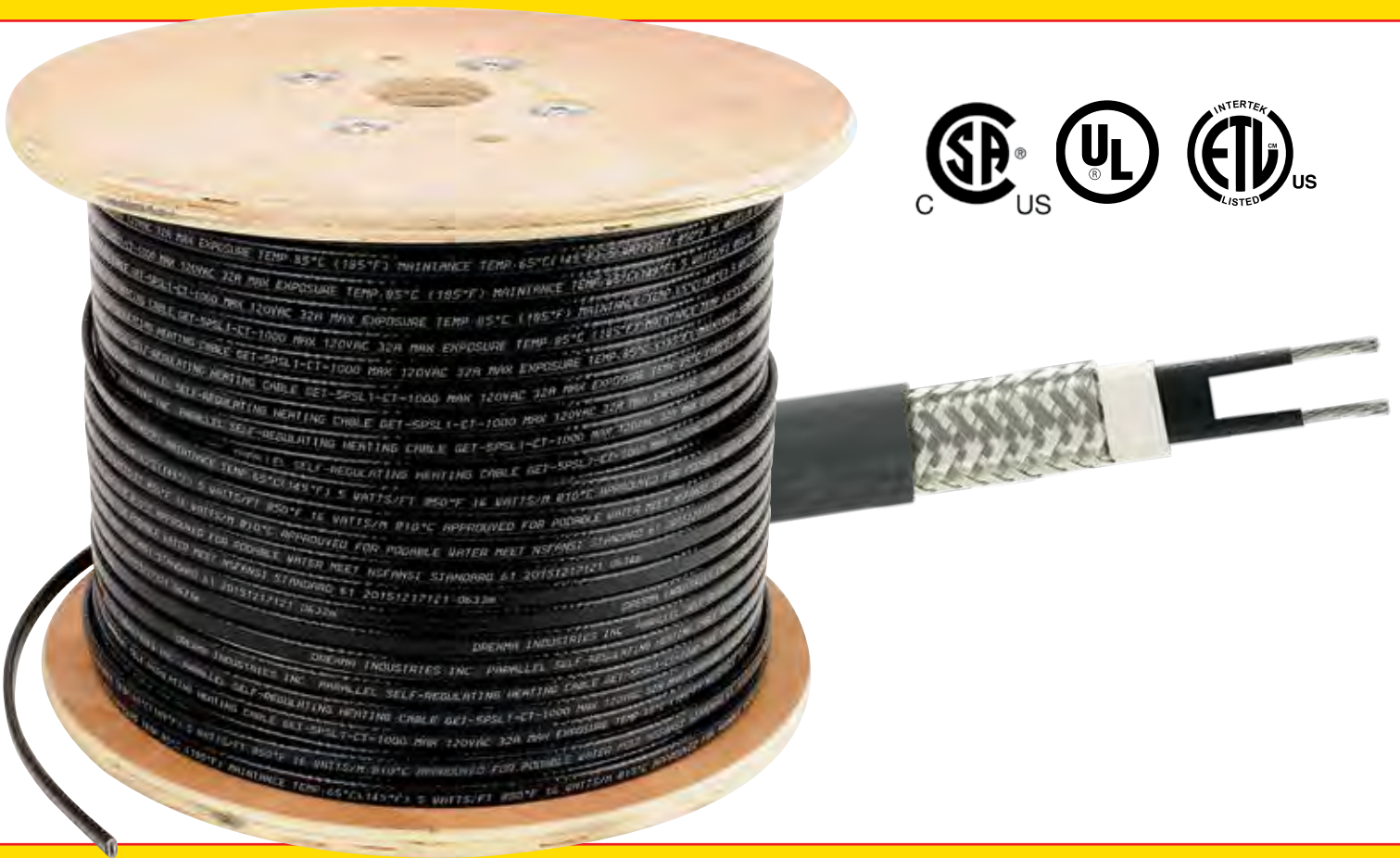
Minimum Start-up Temp.	CB Size	6HTLe		8HTLe	
	Amps	120V ft	240V ft	120V ft	240V ft
10°C (50°F)	15	200	405	150	300
	20	235	470	200	400
	30	245	490	210	420
	40	245	490	210	420
0°C (32°F)	15	200	405	150	300
	20	235	470	200	400
	30	245	490	210	420
	40	245	490	210	420
-10°C (14°F)	15	160	320	140	280
	20	200	400	150	300
	30	235	475	150	410
	40	245	490	210	420
-18°C (0°F)	15	125	255	100	200
	20	170	340	130	265
	30	235	475	200	400
	40	245	490	210	420
-29°C (-20°F)	15	110	225	85	175
	20	150	300	115	235
	30	220	440	175	350
	40	245	490	210	420
-40°C (-40°F)	15	100	195	80	155
	20	130	260	105	210
	30	195	400	155	315
	40	240	480	210	420

ELEC TRACE^{TM/MD}

Heating Cable Manufacturer

We are manufacturer of self-regulating heating cables.

We offer thermoplastic or fluoropolymer jackets.



We are certified for residential, commercial, institutional and industrial (CSA; C1D2).

Applications for; roof & gutters, pipe freeze, wastewater and potable water.

We sell everywhere in NORTH AMERICA!

11 mm HTLe Self Regulating Heating Cable

Freeze protection table

Typical insulated drain pipe choosing the right cable length for pipe tracing.

Size / Size	Type / Type	5 ft	10 ft	15 ft	20 ft	25 ft	30 ft	35 ft	40 ft	45 ft	50 ft	55 ft	60 ft	
1/2"	Metal	A	B	C	D	E	E	E	F	F	F	G	G	
	Plastic	A	B	C	D	E	E	F	F	F	G	G	H	
1"	Metal	A	B	C	D	E	E	E	F	F	F	G	G	
	Plastic	B	B	C	D	E	E	F	F	F	G	G	H	
1-1/2"	Metal	A	B	C	D	E	E	E	F	F	F	G	G	
	Plastic	B	C	D	E	E	F	F	F	G	G	H	H	
2"	Metal	A	B	C	D	E	E	E	F	F	G	G	H	
	Plastic	B	C	E	E	F	G	H	H	I	J	J	K	
2-1/2"	Metal	A	C	C	D	E	F	F	F	G	G	H	H	
	Plastic	B	D	E	F	G	H	I	J	K	L	M	L	
Size		65 ft	70 ft	75 ft	80 ft	85 ft	90 ft	95 ft	100 ft	125 ft	150 ft	175 ft	200 ft	250 ft
1/2"	Metal	H	H	H	I	I	J	J	J	L	N	P	Q	S
	Plastic	H	H	I	I	J	J	J	K	M	O	Q	R	
1"	Metal	H	H	H	I	I	J	J	J	L	N	P	Q	S
	Plastic	H	H	I	I	J	J	J	K	M	O	Q	R	
1-1/2"	Metal	H	H	H	I	I	J	J	J	L	N	P	Q	S
	Plastic	H	I	I	J	J	J	K	L	O	Q	R		
2"	Metal	H	H	I	I	J	J	J	K	M	O	Q	R	
	Plastic	L	M	N	N	O	P	Q	R	S				
2-1/2"	Metal	I	I	J	J	K	K	L	L	N	Q	R	S	
	Plastic	O	M	Q	Q	R	R	S	S					

Choosing the right cable length for pipe tracing

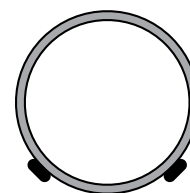
Legend Suggested Cable Length (feet)

HTLe1 = 120 VOLTS & HTLe2 = 240 VOLTS

	A	B	C	D	E	F	G	H
120V	6'	12'	18'	24'	37'	50'	62'	75'
240V	6'	12'	18'	24'	37'	50'	62'	75'
	I	J	K	L	M	N	O	P
120V	87'	100'	112'	125'	137'	150'	-	-
240V	87'	100'	112'	125'	137'	150'	162'	175'
	Q	R	S					
120V	-	-	-					
240V	200'	225'	250'					

Important:

If the cable is longer than the pipe, it must be spiraled around it, evenly distributed. If twice the length, double trace the cable straight on the pipe in a 4 and 7 o'clock position. Apply a minimum insulation thickness of one (1) inch.

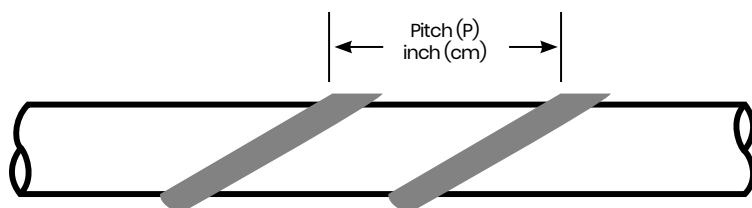


The HTLe cable can be run into an open non-pressurized drain pipe containing only water. The cable end seal cannot be immersed in water. Otherwise, place the self-regulating heating cable on the outside pipe with insulation.

TABLE FOR SPIRAL PITCH (P)

To compensate for heat loss, and for an output ratio between 1X (single trace) and 2X (dual trace) use the following table.

Pipe Size IPS		Ratio of feet (meters) of cable per foot (meter) of pipe															
		1.1		1.2		1.3		1.4		1.5		1.6		1.7		1.8	
inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm
1	2.5	9	23	6	15	5	13	4	10	4	10	3	8	3	8	3	8
1 1/4	3.2	11	28	8	20	6	15	5	13	5	13	4	10	4	10	3	8
1 1/2	3.8	13	33	9	23	7	18	6	15	5	13	5	13	4	10	4	10
2	5.0	16	41	11	28	9	23	7	18	6	15	6	15	5	13	5	13
2 1/2	6.4	20	51	14	36	11	28	9	23	8	20	7	18	6	15	6	15
3	7.5	24	61	17	43	13	33	11	28	10	25	9	23	8	20	7	18
4	10	31	79	21	53	17	43	14	36	13	33	11	28	10	25	9	23
6	15	45	114	31	79	25	64	21	53	18	46	17	43	15	38	14	36
8	20	59	150	41	104	32	81	27	69	24	61	22	56	20	51	18	46
10	25	74	188	51	130	41	104	34	86	30	76	27	69	25	64	23	58
12	30	87	221	60	152	48	122	41	104	36	91	32	81	30	76	27	69
14	35	96	244	66	168	53	135	45	114	39	99	35	89	32	81	29	74
16	40	110	279	76	193	61	155	51	130	45	114	40	102	37	94	34	86
18	45	123	312	89	226	68	173	58	147	51	130	45	114	41	104	38	97
20	50	137	348	95	241	76	193	64	163	56	142	50	127	46	117	42	107
24	60	164	417	114	290	91	231	77	196	67	170	60	152	55	140	50	127

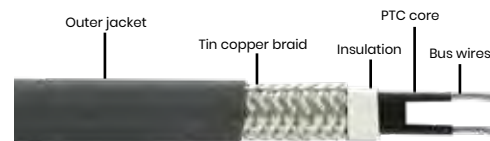


Example : For 4 inch pipe in diameter, with 1.5 feet of heater cable per foot of pipe, P = 13 inches.



13 mm HTR Self Regulating Heating Cable

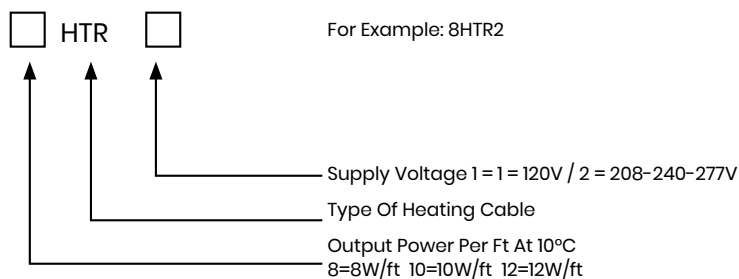
HTR cables are ideal for freeze protection & process temperature maintenance on pipe, tanks and valves for residential and commercial applications. These cables use the latest self-regulating technology adjusting heat output according to the B7:N12 temperature, making them energy efficient and cost effective.



- Cable can be cut to desired length and overlapped without risk of overheating.
- Suitable for metal or plastic surfaces.
- Low installation and maintenance cost.
- Tinned copper braid provides additional protection to the cable core.
- Flame retardant thermoplastic outer jacket option, protects against certain chemical solution, abrasion and impact damage.

Product number

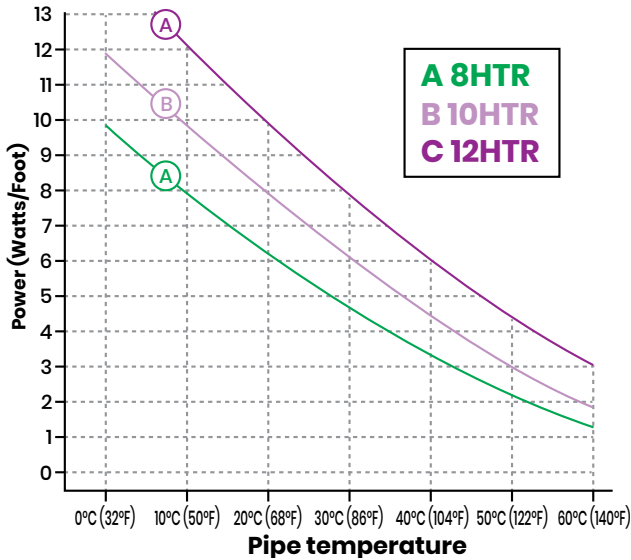
MODEL	WATTS	VOLTAGE
8HTR1, 8HTR2	8	120V/240V
10HTR1, 10HTR2	10	120V/240V
12HTR1, 12HTR2	12	120V/240V



SPECIFICATION	
Jacket	Thermoplastic
Chemical Resistance	Organic and corrosive solutions
Nominal Thickness (mm)	6
Nominal Width (mm)	12.6
Minimum Bending Radius (mm)	36
Weight (kg/100m)	13.8
Electrical Classification	Non-Hazardous
Service Voltage	120V / 240V (208-277V)
Max. maintain or continuous exposure temperature (power on)	65°C (150°F)
Max. Intermittent Exposure	85°C (185°F)
Minimum Installation Temperature	-40°C (-40°F)
Protective Braid resistance	<18.2 Ω/km
Bus Wire Gauge	16 AWG
Approvals	CSA / UL

Power output curves

Nominal power output at 240V when HTR is installed on insulated metal pipes



	Adjustement Factors			
	Power Output		Circuit Length	
	208V	277V	208V	277V
8HTR	0.89	1.08	0.92	1.11
10HTR	0.89	1.08	0.92	1.11
12HTR	0.89	1.08	0.92	1.11

Maximum Length Based On Circuit Breaker Size

Minimum Start-up Temp.	CB Size	8HTR		10HTR		12HTR	
	Amps	120V ft	240V ft	120V ft	240V ft	120V ft	240V ft
10°C (50°F)	15	150	300	120	240	80	160
	20	200	400	160	315	140	270
	30	210	420	182	360	150	310
	40	210	420	182	360	150	310
0°C (32°F)	15	150	300	105	210	75	150
	20	200	400	140	280	130	260
	30	210	420	170	340	145	290
	40	210	420	180	360	150	310
-10°C (14°F)	15	140	280	95	190	70	140
	20	150	300	125	250	115	230
	30	205	410	165	330	142	285
	40	210	420	180	360	150	310
-18°C (0°F)	15	100	200	80	160	60	120
	20	130	265	110	210	80	160
	30	200	400	160	325	140	280
	40	210	420	180	360	150	310
-29°C (-20°F)	15	85	175	70	145	50	105
	20	115	235	95	190	65	140
	30	175	350	140	285	110	225
	40	210	420	180	360	150	310
-40°C (-40°F)	15	80	155	90	125	45	90
	20	105	210	85	170	60	125
	30	155	315	125	255	90	190
	40	210	420	170	340	140	280

13 mm HTR Self Regulating Heating Cable

Freeze protection table

Typical insulated drain pipe choosing the right cable length for pipe tracing.

Size / Size	Type / Type	5 ft	10 ft	15 ft	20 ft	25 ft	30 ft	35 ft	40 ft	45 ft	50 ft	55 ft	60 ft	
1/2"	Metal	A	B	C	D	E	E	E	F	F	F	G	G	
	Plastic	A	B	C	D	E	E	F	F	F	G	G	H	
1"	Metal	A	B	C	D	E	E	E	F	F	F	G	G	
	Plastic	B	B	C	D	E	E	F	F	F	G	G	H	
1-1/2"	Metal	A	B	C	D	E	E	E	F	F	F	G	G	
	Plastic	B	C	D	E	E	F	F	F	G	G	H	H	
2"	Metal	A	B	C	D	E	E	E	F	F	G	G	H	
	Plastic	B	C	E	E	F	G	H	H	I	J	J	K	
2-1/2"	Metal	A	C	C	D	E	F	F	F	G	G	H	H	
	Plastic	B	D	E	F	G	H	I	J	K	L	M	L	
Size		65 ft	70 ft	75 ft	80 ft	85 ft	90 ft	95 ft	100 ft	125 ft	150 ft	175 ft	200 ft	250 ft
1/2"	Metal	H	H	H	I	I	J	J	J	L	N	P	Q	S
	Plastic	H	H	I	I	J	J	J	K	M	O	Q	R	
1"	Metal	H	H	H	I	I	J	J	J	L	N	P	Q	S
	Plastic	H	H	I	I	J	J	J	K	M	O	Q	R	
1-1/2"	Metal	H	H	H	I	I	J	J	J	L	N	P	Q	S
	Plastic	H	I	I	J	J	J	K	L	O	Q	R		
2"	Metal	H	H	I	I	J	J	J	K	M	O	Q	R	
	Plastic	L	M	N	N	O	P	Q	R	S				
2-1/2"	Metal	I	I	J	J	K	K	L	L	N	Q	R	S	
	Plastic	O	M	Q	Q	R	R	S	S					

Choosing the right cable length for pipe tracing

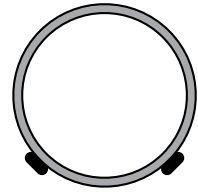
Legend Suggested Cable Length (feet)

HTR1 = 120 VOLTS & HTR2 = 240 VOLTS

	A	B	C	D	E	F	G	H
120V	6'	12'	18'	24'	37'	50'	62'	75'
240V	6'	12'	18'	24'	37'	50'	62'	75'
	I	J	K	L	M	N	O	P
120V	87'	100'	112'	125'	137'	150'	-	-
240V	87'	100'	112'	125'	137'	150'	162'	175'
	Q	R	S					
120V	-	-	-					
240V	200'	225'	250'					

Important:

If the cable is longer than the pipe, it must be spiraled around it, evenly distributed. If twice the length, double trace the cable straight on the pipe in a 4 and 7 o'clock position. Apply a minimum insulation thickness of one (1) inch.

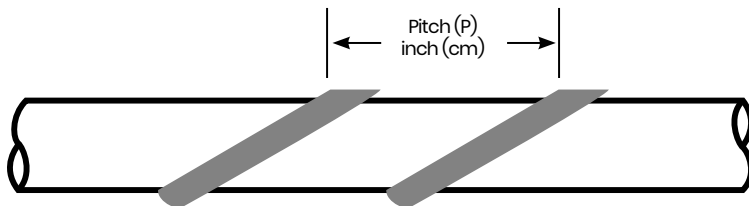


The HTR cable can be run into an open non-pressurized drain pipe containing only water. The cable end seal cannot be immersed in water. Otherwise, place the self-regulating heating cable on the outside pipe with insulation.

TABLE FOR SPIRAL PITCH (P)

To compensate for heat loss, and for an output ratio between 1X (single trace) and 2X (dual trace) use the following table.

Pipe Size IPS		Ratio of feet (meters) of cable per foot (meter) of pipe															
		1.1		1.2		1.3		1.4		1.5		1.6		1.7		1.8	
inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm
1	2.5	9	23	6	15	5	13	4	10	4	10	3	8	3	8	3	8
1 1/4	3.2	11	28	8	20	6	15	5	13	5	13	4	10	4	10	3	8
1 1/2	3.8	13	33	9	23	7	18	6	15	5	13	5	13	4	10	4	10
2	5.0	16	41	11	28	9	23	7	18	6	15	6	15	5	13	5	13
2 1/2	6.4	20	51	14	36	11	28	9	23	8	20	7	18	6	15	6	15
3	7.5	24	61	17	43	13	33	11	28	10	25	9	23	8	20	7	18
4	10	31	79	21	53	17	43	14	36	13	33	11	28	10	25	9	23
6	15	45	114	31	79	25	64	21	53	18	46	17	43	15	38	14	36
8	20	59	150	41	104	32	81	27	69	24	61	22	56	20	51	18	46
10	25	74	188	51	130	41	104	34	86	30	76	27	69	25	64	23	58
12	30	87	221	60	152	48	122	41	104	36	91	32	81	30	76	27	69
14	35	96	244	66	168	53	135	45	114	39	99	35	89	32	81	29	74
16	40	110	279	76	193	61	155	51	130	45	114	40	102	37	94	34	86
18	45	123	312	89	226	68	173	58	147	51	130	45	114	41	104	38	97
20	50	137	348	95	241	76	193	64	163	56	142	50	127	46	117	42	107
24	60	164	417	114	290	91	231	77	196	67	170	60	152	55	140	50	127

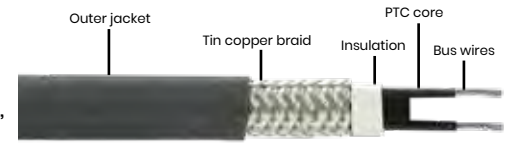


Example : For 4 inch pipe, with 1.5 feet of heater cable per foot of pipe, P = 13 inches.



11 mm HTLe-PW Self-Regulating heating cable for potable water with fluoropolymer sheath NSF/ANSI Standard 61

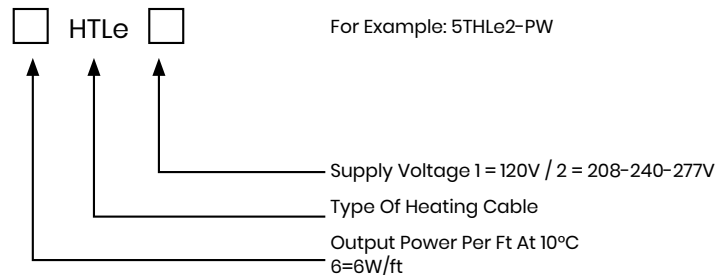
HTLe-PW cables are ideal for freeze protection & process temperature maintenance on pipe, tanks and valves for residential and commercial applications for exposure to organic or corrosive solutions. These cables for potable water use the latest self-regulating technology adjusting heat output according to the ambient temperature, making them energy efficient and cost effective.



- Cable can be cut to desired length and overlapped without risk of overheating.
- Suitable for metal or plastic surfaces.
- Low installation and maintenance cost.
- Tinned copper braid provides additional protection to the cable core.
- Flame retardant thermoplastic outer jacket option, protects against certain chemical solution, abrasion and impact damage.

Product number

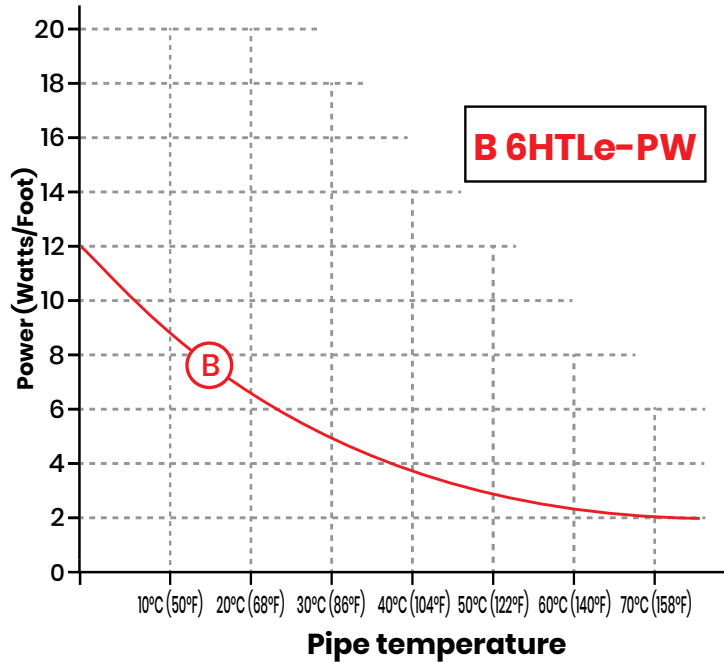
MODEL	WATTS	VOLTAGE
6HTLe1-PW, 6HTLe2-PW	6	120V/240V



SPECIFICATION	
Jacket	Fluoropolymer
Chemical Resistance	Organic and corrosive solutions
Nominal Thickness (mm)	6
Nominal Width (mm)	10.9
Minimum Bending Radius (mm)	36
Weight (kg/100m)	11
Electrical Classification	Non-Hazardous
Service Voltage	120V/240V (208-277V)
Max. maintain or continuous exposure temperature (power on)	65°C (150°F)
Max. Intermittent Exposure	85°C (185°F)
Minimum Installation Temperature	-40°C (-40°F)
Protective Braid resistance	<18.2 Ω/km
Bus Wire Gauge	16 AWG
Approvals	NSF/ANSI 61 / CSA

Power output curves

Nominal power output at 240V when HTLe-PW is installed inside insulated metal pipes



Maximum Length Based On Circuit Breaker Size

Minimum Start-up Temp.	CB Size*	6HTLe1-PW		6HTLe2-PW	
	Amps	120V		240V	
		ft	M	ft	M
10°C (50°F)	10	85	26	170	51.8
	15	120	36.5	240	73.1
	20	148	45.1	295	90
	30	200	60.9	400	122
	40	200	60.9	400	122
0°C (32°F)	10	73	22.2	145	44.2
	15	102	31.1	203	61.8
	20	133	40.5	265	80.7
	30	200	60.9	400	122
	40	200	60.9	400	122

Example : Maximal cable length, with a 20 Amps breaker / 120 Volts at 0°C is 118 feet.

Accessories for HTLe-PW potable water cable

Brass Connection Kit

The Brass Connection Kit is for use with Drexma in-line GFI (120V, 15A) power cord to introduce a self-regulating heating cable into a potable water line by mean of a T-Connector.



BRASSCK

Brass connection kit

CONTENT:

3/4 " NPT Brass bushing with compression fitting & grommet.
Crimp kit 14 AWG/120V wire.

End seal kit

Protection kit for potable water



ET12-PW

KIT CONTENTS

Item	Qty.	Description
A	1	Heat shrink tube 150mm long x 19mm dia. (5-7/8" long x 3/4" dia.)
B	1	Woven braid sleeve 100mm long x 13mm dia. (4" long x 1/2" dia.)
C	1	Heat shrink cap 12.5mm dia. (1/2" dia.)
D	1	Mastic strip 12.7mm wide. (1/2" wide.)
E	1	Heat shrink tube 80mm long x 16mm dia. (3-1/8" long x 2/3" dia.)

FSPC (standard 10 feet cold lead) terminated and plug-in self-regulating heating cable 120V & 240V



FSPC1



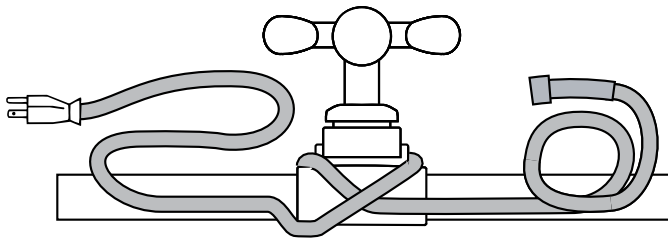
FSPC2

OPTIONAL ON REQUEST :

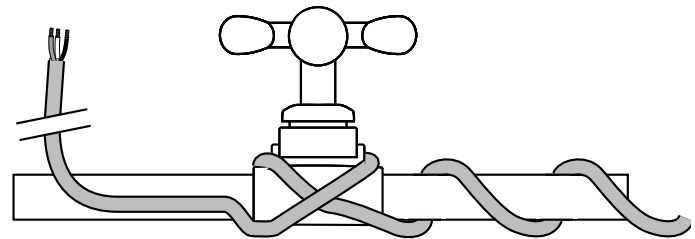
Longer cold lead are available up to 50 feet.

These heating cables provide pipes and tank systems protection from damage due to freezing, and can be used in residential and commercial applications. The cables automatically adjust heat output according to the ambient temperature conditions. Under cooler conditions the heat output increases, and as the temperature rises the output decreases to save on energy. The cables are available in various pre-assembled lengths.

- Comes in pre-cut lengths, sealed with cap and plug (120V only).
- Suitable for use on water filled and metal pipes.
- Will not overheat if overlapped.



FSPC1
120 Volts



FSPC2
240 Volts

SPECIFICATION	
Jacket	Thermoplastic
Chemical Resistance	Aqueous inorganic solutions
Nominal Cable Width (in/mm)	0.23/5.8
Nominal Cable Thickness (in/mm)	0.42/10.6
Bus Wire Gauge (AWG)	16
Cold Lead Length (ft/m)	10' / 3.048 m
Min. Circuit Breaker Size (Amps)	15
Maximum Exposure temperature (°F/°C)	185/85
Electrical Classification	Non Hazardous
Approvals	ETL / UL

FSPC1, FSPC2

Cable Selection Chart

	Model	Length		Cold lead size AWG	Output on pipe @50°F/10°C
		Ft.	M		
120 V	FSPC1-6	6	1.82	18	36W
	FSPC1-12	12	3.65	18	72W
	FSPC1-18	18	5.48	18	108W
	FSPC1-24	24	7.31	18	144W
	FSPC1-37	37	11.28	18	225W
	FSPC1-50	50	15.24	16	300W
	FSPC1-62	62	18.90	16	375W
	FSPC1-75	75	22.86	16	450W
	FSPC1-87	87	26.52	16	525W
	FSPC1-100	100	30.48	16	600W
	FSPC1-112	112	34.14	14	675W
	FSPC1-125	125	38.10	14	750W
	FSPC1-137	137	41.76	14	825W
	FSPC1-150	150	45.73	14	900W

	Model	Length		Cold lead size AWG	Output on pipe @50°F/10°C
		Ft.	M		
240 V	FSPC2-6	6	1.82	18	36W
	FSPC2-12	12	3.65	18	72W
	FSPC2-18	18	5.48	18	108W
	FSPC2-24	24	7.31	18	144W
	FSPC2-37	37	11.28	18	225W
	FSPC2-50	50	15.24	18	300W
	FSPC2-62	62	18.90	18	375W
	FSPC2-75	75	22.86	18	450W
	FSPC2-87	87	26.52	18	525W
	FSPC2-100	100	30.48	16	600W
	FSPC2-112	112	34.14	16	675W
	FSPC2-125	125	38.10	16	750W
	FSPC2-137	137	41.76	16	825W
	FSPC2-150	150	45.73	16	900W
	FSPC2-162	162	49.39	16	975W
	FSPC2-175	175	53.35	16	1050W
	FSPC2-200	200	60.97	16	1200W
	FSPC2-225	225	68.59	14	1350W
	FSPC2-250	250	76.21	14	1500W

Freeze protection table

Typical insulated drain pipe choosing the right cable length for pipe tracing.

Size	Type	5 ft	10 ft	15 ft	20 ft	25 ft	30 ft	35 ft	40 ft	45 ft	50 ft	55 ft	60 ft	
1/2"	Metal	A	B	C	D	E	E	E	F	F	F	G	G	
	Plastic	A	B	C	D	E	E	F	F	F	G	G	H	
1"	Metal	A	B	C	D	E	E	E	F	F	F	G	G	
	Plastic	B	B	C	D	E	E	F	F	F	G	G	H	
1-1/2"	Metal	A	B	C	D	E	E	E	F	F	F	G	G	
	Plastic	B	C	D	E	E	F	F	F	G	G	H	H	
2"	Metal	A	B	C	D	E	E	E	F	F	G	G	H	
	Plastic	B	C	E	E	F	G	H	H	I	J	J	K	
2-1/2"	Metal	A	C	C	D	E	F	F	F	G	G	H	H	
	Plastic	B	D	E	F	G	H	I	J	K	L	M	L	
Size		65 ft	70 ft	75 ft	80 ft	85 ft	90 ft	95 ft	100 ft	125 ft	150 ft	175 ft	200 ft	250 ft
1/2"	Metal	H	H	H	I	I	J	J	J	L	N	P	Q	S
	Plastic	H	H	I	I	J	J	J	K	M	O	Q	R	
1"	Metal	H	H	H	I	I	J	J	J	L	N	P	Q	S
	Plastic	H	H	I	I	J	J	J	K	M	O	Q	R	
1-1/2"	Metal	H	H	H	I	I	J	J	J	L	N	P	Q	S
	Plastic	H	I	I	J	J	J	K	L	O	Q	R		
2"	Metal	H	H	I	I	J	J	J	K	M	O	Q	R	
	Plastic	L	M	N	N	O	P	Q	R	S				
2-1/2"	Metal	I	I	J	J	K	K	L	L	N	Q	R	S	
	Plastic	O	M	Q	Q	R	R	S	S					

Choosing the right cable length for pipe tracing

Legend Standard Cable Length (feet)

	A	B	C	D	E	F	G	H
120V	FSPC1-6	FSPC1-12	FSPC1-18	FSPC1-24	FSPC1-37	FSPC1-50	FSPC1-62	FSPC1-75
240V	FSPC2-6	FSPC2-12	FSPC2-18	FSPC2-24	FSPC2-37	FSPC2-50	FSPC2-62	FSPC2-75
	I	J	K	L	M	N	O	P
120V	FSPC1-87	FSPC1-100	FSPC1-112	FSPC1-125	FSPC1-137	FSPC1-150	-	-
240V	FSPC2-87	FSPC2-100	FSPC2-112	FSPC2-125	FSPC2-137	FSPC2-150	FSPC2-162	FSPC2-175
	Q	R	S					
120V	-	-	-					
240V	FSPC2-200	FSPC2-225	FSPC2-250					

FSPC1=120VOLTS
FSPC2=240VOLTS



Important:

If the cable is longer than the pipe, it must be spiraled around it, evenly distributed. If twice the length, double trace the cable straight on the pipe in a 4 and 7 o'clock position. Apply a minimum insulation thickness of one (1) inch.

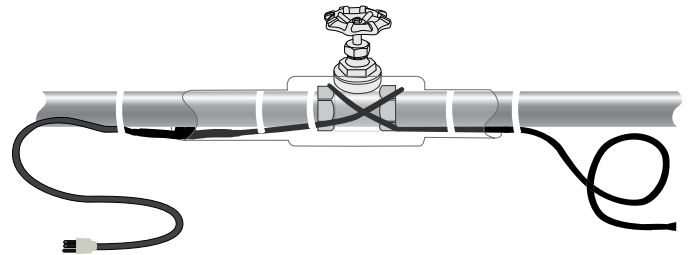
The FSPC cable can be run into an open non-pressurized drain pipe containing only water. The cable end seal cannot be immersed in water. Otherwise, place the self-regulating heating cable on the outside pipe with insulation.



Terminated self-regulating heating cable 3W - 120V with cold lead plug-in and thermostat

These heating cables provide pipes freeze protection from damage due to freezing, and can be used in residential and commercial applications. The cables automatically adjust heat output according to the ambient temperature conditions. Under cooler conditions the heat output increases, and as the temperature rises the output decreases to save on energy. The cables are available in various pre-assembled lengths.

- Comes in pre-cut lengths, seal with cap and plug
- Suitable for pipe freeze protection under insulation
- Prevents the accumulation of ice cap inside pipes
- Will not overheat if overlapped.

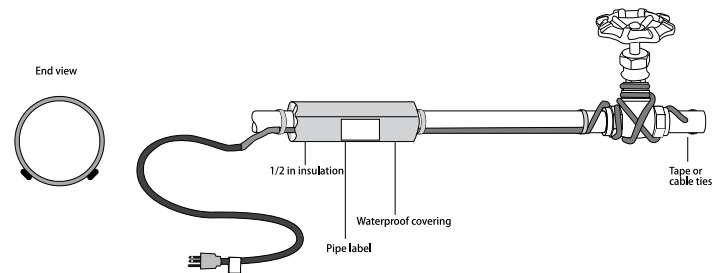


SPECIFICATION

Jacket	Thermoplastic
Chemical Resistance	Aqueous inorganic solutions
Nominal Cable Width (in/mm)	1/4 inch / 5.7 mm
Nominal Cable Thickness (in/mm)	3/8 inch/8.3 mm
Bus Wire Gauge (AWG)	20
Cold Lead Length (ft/m)	2' / 0.6 m
Min. Circuit Breaker Size (Amps)	15
Maximum Exposure temperature (°F/°C)	185/85
Electrical Classification	Non Hazardous
Approvals	ETL

Cable specification

- Rated 3W/ft. at 50°F (10°C) for pipe freeze.
- Available for use on rigid water filled plastic and metal pipes.
- Cable can be overlapped.
- 2 feet 18/3 cold lead with plug.
- Pre-assembled, ready to install.
- With brand-new energy saving thermostat built-in .



Terminated self-regulating heating cable 3W - 120V with cold lead plug-in and thermostat

Cable length calculation and recommendation

Based on the diameter and length of standard pipes, we recommend cable lengths according to the following table.

Pipe diameter	Pipe material	Pipe length										
		3'	5'	10'	15'	20'	30'	40'	50'	60'	70'	80'
0.5"	Metal	3'	6'	12'	15'	24'	30'	40'	60'	60'	80'	80'
	Plastic	3'	6'	12'	15'	24'	30'	40'	60'	60'	80'	80'
0.75"	Metal	3'	6'	12'	15'	24'	30'	40'	60'	60'	80'	80'
	Plastic	3'	6'	12'	15'	24'	30'	40'	60'	60'	80'	80'
1"	Metal	3'	6'	12'	15'	24'	30'	40'	60'	60'	80'	80'
	Plastic	3'	6'	12'	15'	24'	30'	40'	60'	60'	80'	80'
1.5"	Metal	3'	6'	12'	15'	24'	30'	40'	60'	60'	80'	80'
	Plastic	6'	12'	24'	30'	40'	60'	80'				
2"	Metal	6'	12'	24'	30'	40'	60'	80'				
	Plastic	6'	12'	24'	30'	40'	60'	80'				
3"	Metal	6'	12'	24'	30'	40'	60'	80'				
	Plastic	6'	12'	24'	30'	40'	60'	80'				

You can use the number in the above chart to multiply the length of your pipe to pick up the right products. For example, if your pipe is metal, the length is 20 feet, the diameter of your pipe is 1" and the lowest ambient temperature is -20°F in your area, you will find the "1.3" based on the chart. You can use 20 feet x 1.3 = 26 feet. You can choose our 30feet JHSF preassemble heating cable (Pick the length which is close to the number which you calculated).

JHSF can be installed straight along the pipe for some small pipes. At lower temperatures, for longer pipes, the cable needs to be installed by spiral to ensure the pipe can get the adequate heat from the cable to avoid the freezing.

NOTE: For each valve or spigot on pipe an additional foot of the cable is needed. When the cable is longer than the pipe, spiral the excess cable around the pipe length evenly.

Cable length specification

Model	Voltage V	Cable Length (Ft)	Power Output at 0°C/32°F on pipe(watts)	Power Output at 5°C/40°F on pipe(watts)	Power Output at 10°C/50°F on pipe(watts)
JHSF-3-1	120	3	14.4	12	9
JHSF-6-1	120	6	28.8	24	18
JHSF-9-1	120	9	43.2	36	27
JHSF-12-1	120	12	57.6	48	36
JHSF-15-1	120	15	72	60	45
JHSF-18-1	120	18	86.4	72	54
JHSF-24-1	120	24	115.2	96	72
JHSF-30-1	120	30	144	120	90
JHSF-40-1	120	40	192	160	120
JHSF-60-1	120	60	288	240	180
JHSF-80-1	120	80	384	320	240
JHSF-100-1	120	100	480	400	300
JHSF-125-1	120	125	600	500	375
JHSF-150-1	120	150	720	600	450

PIPE FREEZE PROTECTION SYSTEMS

Controls, thermostats and accessories

MEITAV-TEC



PYROCON 12-TRACE

Main controller and user interface panel (24VAC)



PYROULS

Underground temperature upper limit sensor



FPC-02-120V

Freeze protection controller and power panel 30 Amp; 120 Volts. Variable GFEP.



PYROBOX 3-TRACE

Power management electrical box 4 x 2 poles 30A / 277V contactors with ground fault



PYROBOX 3C-TRACE

Power management electrical box 2 x 3 poles 50A / 600V contactors with ground fault



PYROBOX 5-TRACE

Power management electrical box 4 x 3 poles 50A / 600V contactors with ground fault



FPC-02-240V

Freeze protection controller and power panel 30 Amp; 240 Volts. Variable GFEP.

ETI



25169

FPT 130
Single-Point Freeze Protection Control; GFEP, CM, 100, 277 VAC, 30 A



25170

GPT 130
Single-Point general purpose heat-trace control



25171

GPT 230
Dual-Point Heat-Trace Control; GFEP, CM, 100-277 VAC, 30 A

PIPE FREEZE PROTECTION SYSTEMS

Controls, thermostats and accessories

JOHNSON CONTROLS



A421-AEC-02C

Electronic Temperature Control,
10 Amps, 24V - 120V/208V/240V



A19QSC-4C

Electromechanical temperature
control, remote bulb with
20 feet capillary - 22 Amps,
24V - 120V/208V/240V



A99BB-600C

Metal sensor for A421-AEC-02

BARKSDALE



FL-TPR-L1N-3X-Q10

Exterior thermostat for pipe freeze
protection controller

PECO



TRF115-005

Thermostat Stainless
Exterior Concrete/Gutter
Slab 120V to 277V, 5° -18°C



TRF115-007

Thermostat Copper
Exterior Concrete/Gutter
Slab 120V To 277V, 8° -34°C

DREXMA INDUSTRIES



BRASSCK

Brass Connection Kit



TB-2238

Grommet & fitting



ET-02

Aluminium Tape



ET-03

Glass Cloth Tape
66 Feet Roll



120VCUBE

Thermocube activates
at 3°C/38°C - Max 1800W
for 120V

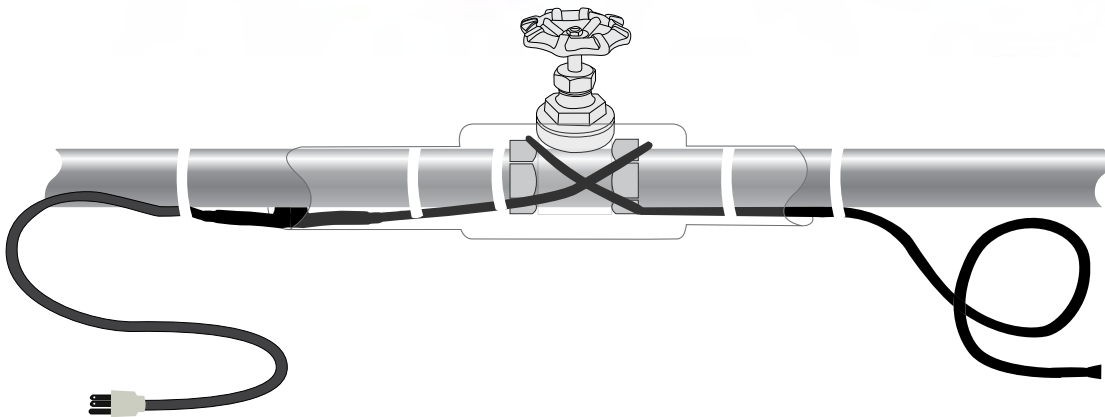


ET12-PW

Protection kit for potable
water



What an easy way to install our JHSF self-regulating heating cable with an integrated thermostat for Pipe Freeze protection in residential and commercial projects.



3,7W – 6W – 15W – HTR – HTLe – HTLe-PW



HTM – FSPC – JHSF

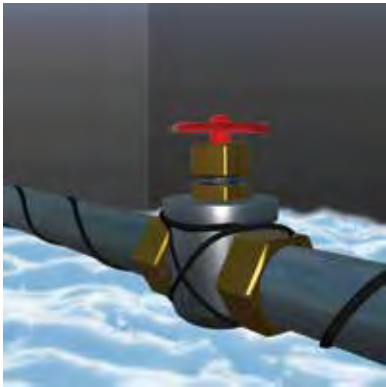
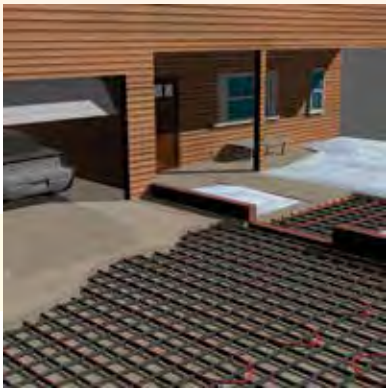
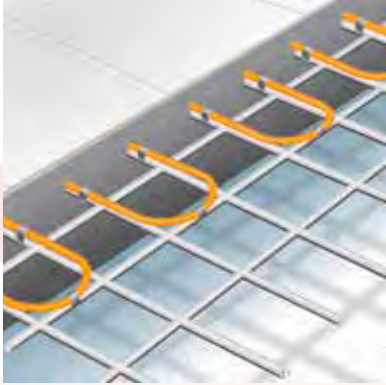
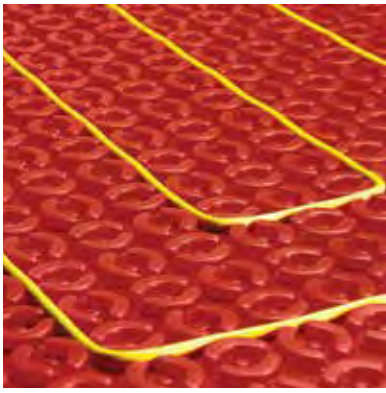


HTLe – HTR – FSPC



HTLe-PW





ELEC TRACE™

Heating Cable Manufacturer

Proud partner



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