



# TLC-TP - 12 MM

## 12 mm TLC-TP Self Regulating Heating Cable

### 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	290 ft	325 ft
1/2"	Metal	H	H	H	I	I	J	J	J	L	N	P	Q	S	T	U
	Plastic	H	H	I	I	J	J	J	K	M	O	Q	R	U		
1"	Metal	H	H	H	I	I	J	J	J	L	N	P	Q	S	T	U
	Plastic	H	H	I	I	J	J	J	K	M	O	Q	R	T		
1-1/2"	Metal	H	H	H	I	I	J	J	J	L	N	P	Q	S	T	U
	Plastic	H	I	I	J	J	J	K	L	O	Q	R	T	U		
2"	Metal	H	H	I	I	J	J	J	K	M	O	Q	R	U		
	Plastic	L	M	N	N	O	P	Q	R	S	U					
2-1/2"	Metal	I	I	J	J	K	K	L	L	N	Q	R	S	U		
	Plastic	O	M	Q	Q	R	R	S	S	U						

### Choosing the right cable length for pipe tracing

### Legend Suggested Cable Length (feet)

TLC-TP1 = 120 VOLTS & TLC-TP2 = 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	T	U			
120V	-	-	-	-	-			
240V	200'	225'	250'	290'	325'			

# TLC-TP - 12 mm



### Important:

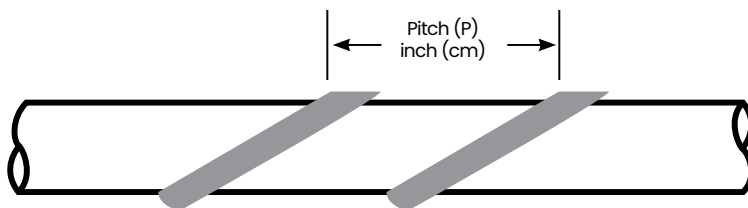
If the cable is longer than the pipe, it must be spiraled around it, evenly distributed. If twice the length, double trace the cable straight on the pipe in a 4 and 7 o'clock position. Apply a minimum insulation thickness of one (1) inch.

The TLC-TP 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



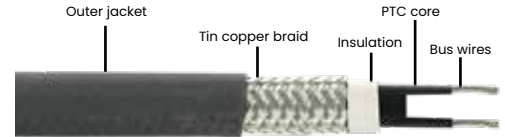
**Example :** For 4 inch pipe in diameter, with 1.5 feet of heater cable per foot of pipe, P = 13 inches.



# 12MVP-TP (HTR) - 13 MM

## 13 mm MVP Self Regulating Heating Cable

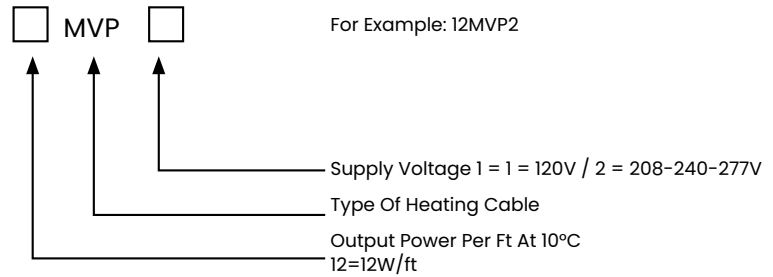
MVP cables are ideal for freeze protection & process temperature maintenance on pipe, tanks and valves for residential and commercial applications. These cables use the latest self-regulating technology adjusting heat output according to the temperature, making them energy efficient and cost effective.



- 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
12MVP1-TP, 12MVP2-TP	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