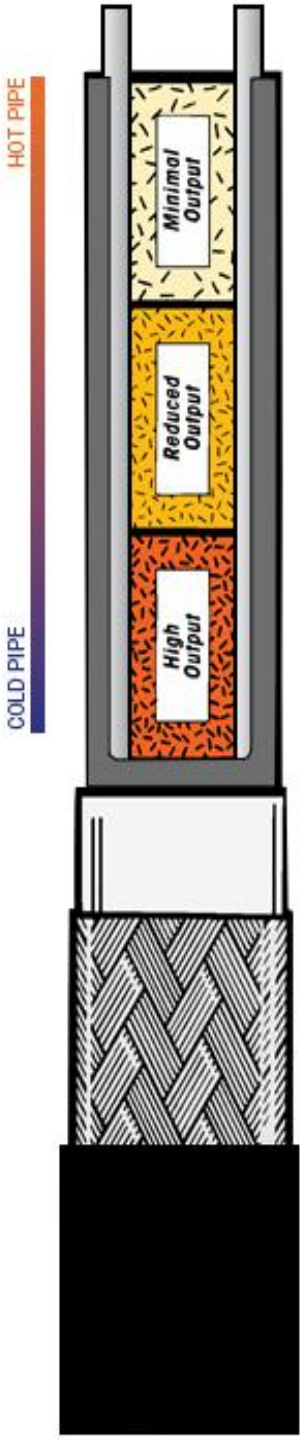
Pipe Freeze Protection Cable

Electric Heating Cable for Water Pipes

MLTV Kit manual



How It Works

A special self-regulating core is at the center of MLTV Kit. This core is conductive and adjusts according to the surrounding temperatures. When it is cold, the cable's core has many conductive paths that generate enough heat to keep water flowing in the pipe.

As the surrounding temperature warms, there are fewer conductive paths and less heat is generated. This self-regulating technology ensures the right amount of heat is applied, when and where it's needed.

MLTV Kit

Pipe freeze prevention cable. Pre-terminated and self-regulating with plug. Nominal 10 Watts/m at 10°C, 230 VAC.

MLTV Kit is engineered to vary its heat output with changes in surrounding temperature.

Because of the self-regulating feature of this cable, MLTV Kit can be wrapped over itself (overlapped), if necessary, when installed on pipes, valves or flanges.

Guard Against Unnecessary Frozen or Burst Water and Drain Pipes.

Automatically Regulates Heat Output To Save You Energy.

Can be Doubled & Overlapped For Easy Application.

MLTV-CR Kit can use on pipe.

MLTV-CT Kit and MLTV-CRW Kit can use on and in pipe with NSF/ANSI Drinking Water certificated overjacket.

Electric Heating Cable for Water Pipes

Follow these 5 easy steps for a worry-free winter.

1. Collect Application Information

• Determine if your pipe is plastic or metal.
• Measure the diameter of the pipe.
• Measure the length of the pipe.
• Count the valves and spigots.

2. Check Power Supply

• Verify that an electrical outlet is available within 2m of splice location on pipe.
• It is recommended that the circuit supplying the heating cable have ground fault protection; this is mandatory by electrical code for some applications in many regions. Consult an electrical inspector to determine the specific ground fault requirements for your application prior to installation. If you are unsure that your circuit has ground fault protection, consult an electrician.

3. Review Temperature Selection Chart

• Locate the Lowest Expected Temperature
• Selection Chart you plan on using.
• Locate the pipe diameter of your plastic or metal pipe in that temperature chart.

4. Select Your Cable Kit

• Refer to the information you collected in Step 1.
• Take the measurement of the length of the pipe.
• Then add one foot (1’ [25.4mm]) of cable for each valve or spigot you counted.
• Total this information to determine the cable length in feet (m) of MLTV Kit cable you will need for this project.
• Select the MLTV Kit Pipe Freeze Prevention kit that most closely matches your cable length in feet (m) per kit selection chart.

5. Additional Items Required

• Pipe/Cable must be covered with 1/2” (12.70mm) fiberglass (or equivalent non-flammable insulation).
• Electrical tape to attach cable to pipe.

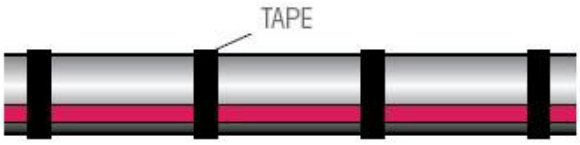
SFTRACE MLTV Kit SELF-REGULATING HEATING CABLE CE/EAC

Ordering Information

Catalog Number	Voltage V	Cable Length/ft	Output W/m (10℃)	Watts (10℃)
10MLTV Kit 2	230	2	10	20
10MLTV Kit 3	230	3	10	30
10MLTV Kit 4	230	4	10	40
10MLTV Kit 5	230	5	10	50
10MLTV Kit 6	230	6	10	60
10MLTV Kit 8	230	8	10	80
10MLTV Kit 10	230	10	10	100
10MLTV Kit 15	230	15	10	150
10MLTV Kit 20	230	20	10	200
10MLTV Kit 25	230	25	10	250

We Make It Easy To Select Your Cable

Unshaded selections can run straight along pipe.



Bold shaded selections must be evenly spiraled along pipe.

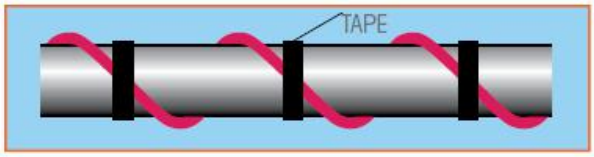


Table “A” Lowest Expected Temperature: 0 ºF (-18ºC)

	Plastic Pipe			Metal Pipe		
Diameter	1/2” (12.70mm)	3/4” (19.05mm)	1” (25.40mm)	1/2” (12.70mm)	3/4” (19.05mm)	1” (25.40mm)
Model	Plastic Pipe Length			Metal Pipe Length		
2m	1.0-1.8m	1.0-1.6	0.8-1.4	1.0-1.8m	1.0-1.8m	1.0-1.8m
3m	1.5-2.7m	1.5-2.4m	1.2-2.1m	1.5-2.7m	1.5-2.7m	1.5-2.7m
4m	2.7-3.8m	2.4-3.2m	2.1-2.7m	2.7-3.8m	2.7-3.8m	2.7-3.8m
5m	3.4-4.7m	3.0-4.0m	2.7-3.3m	3.4-4.7m	3.4-4.7m	3.4-4.7m
6m	4.5-5.7m	3.9-5.1m	3.3-4.5m	4.5-5.7m	4.5-5.7m	4.5-5.7m
8m	5.5-7.6m	5.1-6.8m	4.4-6.0m	5.7-7.6m	5.7-7.6m	5.7-7.6m
10m	6.9-9.5m	6.4-8.5m	5.5-7.5m	7.1-9.5m	7.1-9.5m	7.1-9.5m
15m	10.4-14.7m	9.5-13.5m	8.0-11.4m	10.4-14.7m	10.4-14.7m	10.4-14.7m
20m	13.3-19.7m	12.3-18.2m	10.4-15.7m	13.3-19.7m	13.3-19.7m	13.3-19.7m
25m	16.7-24.7m	15.3-22.7m	13.0-19.7m	16.7-24.7m	16.7-24.7m	16.7-24.7m

Table "B" Lowest Expected Temperature: -20 ºF (-29ºC)

	Plastic Pipe			Metal Pipe		
Diameter	1/2" (12.70mm)	3/4" (19.05mm)	1" (25.40mm)	1/2" (12.70mm)	3/4" (19.05mm)	1" (25.40mm)
Model	Plastic Pipe Length			Metal Pipe Length		
2m	0.8-1.2m	0.8-1.1m	0.8-1.0m	1.0-1.8m	1.0-1.8m	1.0-1.8m
3m	1.2-1.8m	1.1-1.5m	1.0-1.2m	1.5-2.7m	1.5-2.4m	1.2-2.1m
4m	1.8-2.4m	1.5-2.1m	1.2-1.9m	2.7-3.8m	2.4-3.5m	2.1-3.2m
5m	2.4-3.0m	2.1-2.7m	1.7-2.4m	3.4-4.7m	3.1-4.4m	2.7-4.1m
6m	3.0-3.9m	2.7-3.3m	2.4-3.0m	4.5-5.7m	4.2-5.4m	3.9-4.5m
8m	3.9-5.2m	3.3-4.4m	3.0-4.0m	5.7-7.6m	5.4-7.2m	4.5-6.0m
10m	5.2-6.6m	4.4-5.8m	4.0-5.1m	7.6-9.8m	7.2-9.1m	6.0-7.6m
15m	7.3-10.0m	6.4-8.8m	5.4-7.6m	10.6-14.9m	9.7-13.7m	8.2-11.5m
20m	10.0-13.6m	8.8-11.8m	7.6-10.4m	14.9-19.8m	13.7-18.2m	11.5-15.5m
25m	13.6-17.1m	11.8-14.7m	10.4-13.1m	19.8-24.8m	18.2-22.8m	15.5-19.5m

This system can be installed with confidence that it will operate for years without requiring service. All components are made of the highest quality material and are tested during critical points in the manufacturing process.