

HEAT TRACING SOLUTIONS



TEMPSENS INSTRUMENTS (I) PVT. LTD.

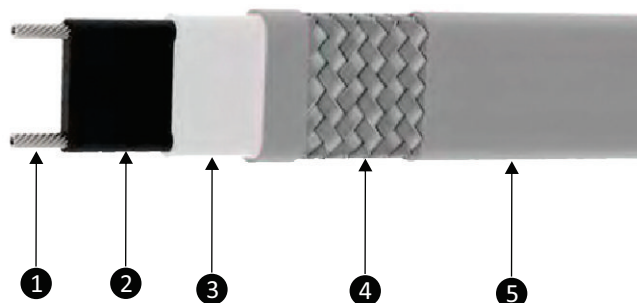
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Construction

MTSRH


1. Bus wires
2. Semi-conductive self regulating matrix
3. Inner Jacket
4. Copper /Nickle plated copper
5. Outer Jacket

Introduction

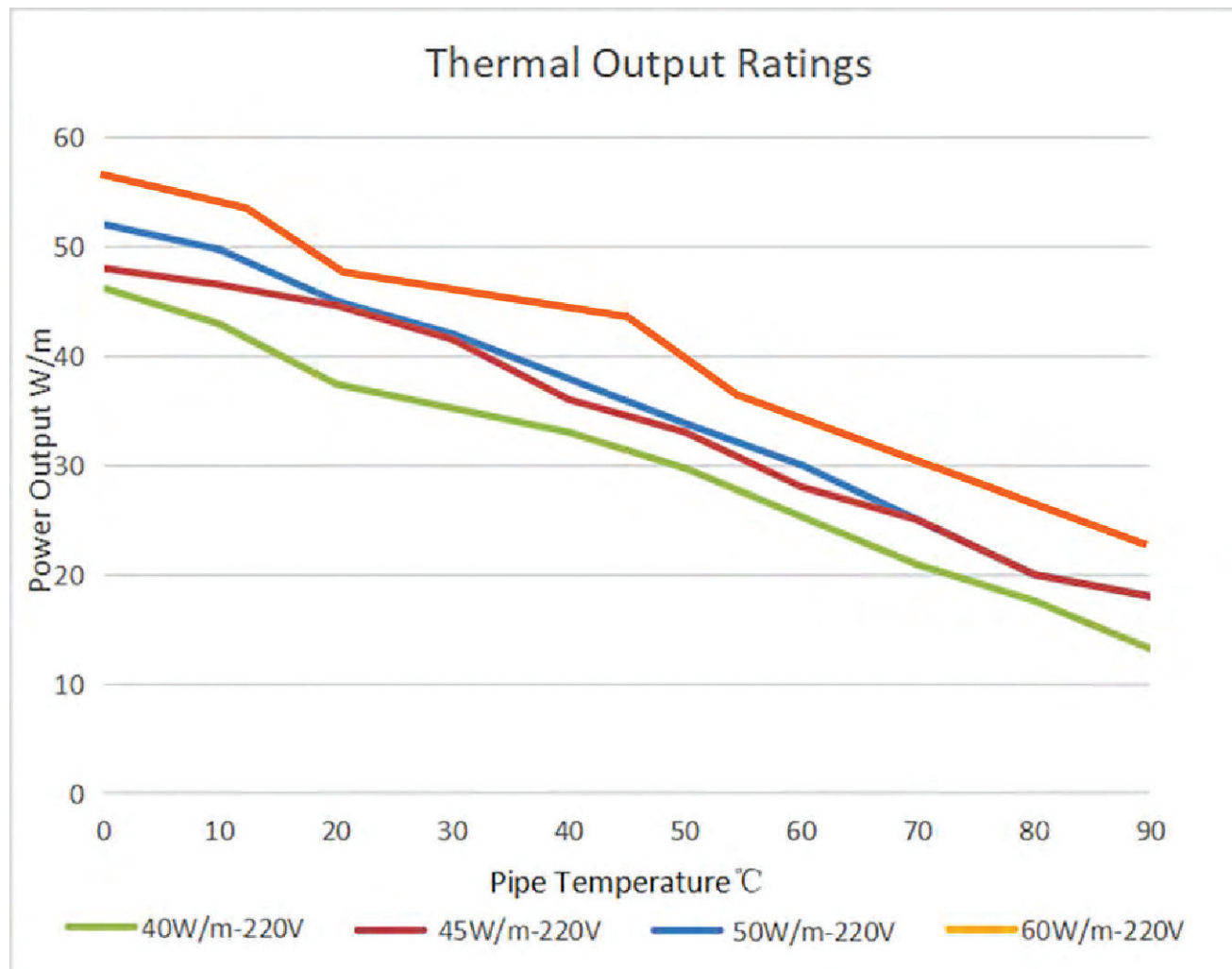
Marathon Heaters self regulating heating cable provide the most versatility in heat trace design and applications. Constructed of a Semi-conductive heater matrix extruded between parallel buswires, a self regulating cable adjusts its output to independently respond to ambient temperatures all along its length. As temperatures increase, the heater's resistance increases which lowers the output wattage. Conversely, as the temperature decreases, the resistance decreases and the cable produces more heat. So it is no need thermostat in some applications. It will never overheat or burnout even when wrapped by itself (overlapped). It can be cut to any length. So it is a convenient, easy use and energy saving product.

Construction Data

Buswire size	1.3mm ² tinned copper
Heating elements	PTC
Insulation	Polyolefin or Fluoropolymer

Cable Specifications

Output wattage at 10°C	40, 45, 50, 60 W/M
Braiding covering area	Over 85%
Max. maintain temp @ 10°C	105°C
Max. exposure temp.	135°C
Min. installation temp.	-40°C
Bending radius	10 times*cable thickness
Voltage	208-277 V
Insulation color	Grey
Regular size to insulation	11.8*3.4mm-polyolefin insulation 11.6*3.2 Fluoropolymer insulation (Width*Thickness)

Graph of MTSRH

Max length(m)vs circuit breaker size

AC220V		Max circuit length(m) vs CB size		
Model	Start-up temp.°C	25A	32A	40A
MTSRH	10	53	69	86
	0	46	61	74
	-20	41	53	66
	-40	36	48	60