



## SELF REGULATING HEATING CABLES

The Processheat range of Self Regulating Heating Cables are the solution to the problems associated with sub-zero temperatures. When water pipework freezes or process lines become viscous, the resultant interruption in supply can be both costly and, more importantly, critical to the safe operation of the system.

Processheat's comprehensive range of self Regulating heating cables have various power outputs available in 220/240 V and 110/120 V., whether the application is freeze protection or process temperature maintenance, Processheat have a Self Regulating Heating Cable to suit the specific application.

Self Regulating Heating Cables consist of a carbon polymer matrix core, extruded between and around two parallel bus-bar wires. An insulated fluoropolymer jacket is then extruded over the core.

The Self Regulating cables are complete with an overbraid for earth continuity and mechanical protection. There is the option of an outer jacket for hazardous area environments providing additional corrosion protection.

The polymer matrix allows current to pass between the busbar wires generating heat. As the temperature increases, the molecular structure is disrupted and reduces the electric current flow, with a subsequent reduction in power output.

For optimum usage, the Processheat Self Regulating Heating Cables can be cut and terminated on site to suit the exact circuit length.

As the heating cable is self regulating, this prevents overheating, making them ideally suited for installation on ABS/UPVC pipework. Due to its fluoropolymer jacket, the self regulation also prevents any plastiser migration.

Due to these unique characteristics the Self Regulating Heaters do not burn out when overlapped.

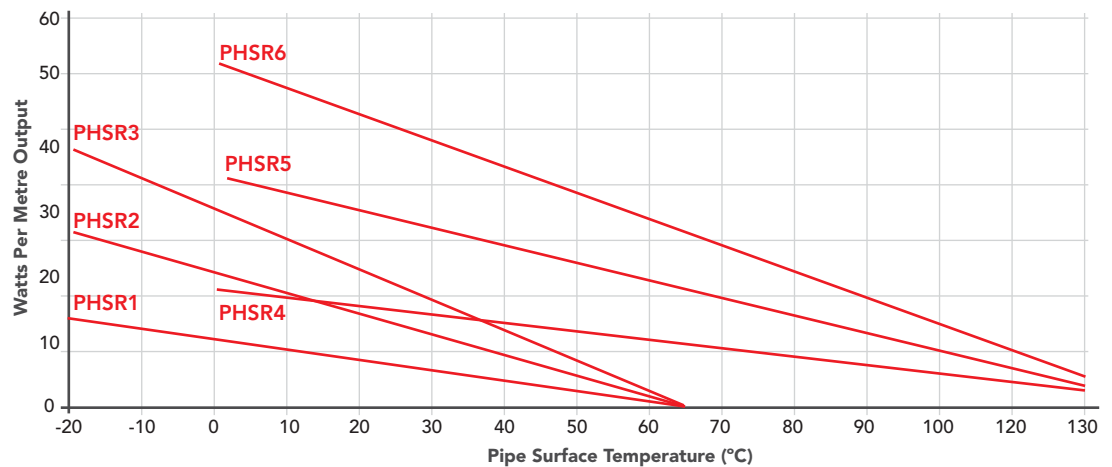
For maximum potential usage, the Processheat range of Self Regulating Heating Cables have been approved for installation in hazardous areas, and are BASEEFA approved for both Zone 1 and Zone 2 areas.

## SELF REGULATING HEATING CABLES

Buswires:	2 x 1.2mm <sup>2</sup>
Heating Core:	Self Regulating semi conductive core
Insulation:	Thermoplastic
Braiding (optional):	Tinned Copper/Stainless Steel
Outerjacketing (optional):	Polymer Jacket
Grade:	BS6351 2.2
Voltage:	110/240 V

Processheat Product Ref	Power Output at 0°C	Maximum Operating Temperature Energised	Maximum Withstand Temperature De-energised	Maximum Circuit Length		Circuit Breaker Sizing at -10°C	
				110/120V	220/240V	120V	240V
PHSR1	10 w/mte	65°C	85°C	100 mte	160 mte	30 A	16 A
PHSR2	20 w/mte	65°C	85°C	80 mte	120 mte	30 A	20 A
PHSR3	30 w/mte	65°C	85°C	60 mte	90 mte	30 A	20 A
PHSR4	18 w/mte	120°C	185°C	65 mte	140 mte	30 A	30 A
PHSR5	36 w/mte	120°C	185°C	52 mte	80 mte	30 A	30 A
PHSR6	54 w/mte	120°C	185°C	40 mte	60 mte	30 A	30 A

### HEAT OUTPUT CHARACTERISTICS



### ACCESSORIES

#### ACCESSORY

Air Sensing Thermostat:  
 Capillary Sensing Thermostat -1 to 40°C  
 Capillary Sensing Thermostat 30 to 110°C  
 Thermostat Mounting Bracket  
 Junction Box  
 Junction Box Mounting Bracket  
 PVC Adhesive Fixing 30 mte  
 Adhesive Glass Cloth 50 mte  
 Gland Termination Kit  
 Insulation Entry Kit

#### REFERENCE

PHAS  
 PHSC1  
 PHSC2  
 PHB1  
 PHJB1  
 PHB2  
 PHTI  
 PHT2  
 PHSTER  
 PHIEK