

**FINE SRF(s) Series** for freeze protection generates heat by a material of semi-conductor, showing a characteristic of PTC (Positive Temperature Coefficient).

PTC is characterized by the power output of heating cable adjusted to compensate for variations in ambient temperature. It produces more heat if the temperature drops and less heat if the temperature rises.

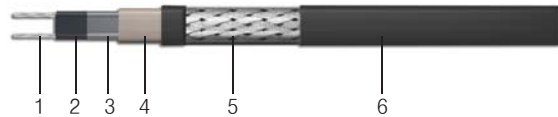
**SRF(s) Series** is a self-regulating cable heater, working on the PTC principle, requiring low electrical consumption.

**SRF(s) Series** is most suitable for protection of plumbs and pipes from freezing in winter.

Thanks to the small geometry (micro size), **SRF(s) Series** provides the solution for in-pipe application.

**Product construction**

1. Copper bus wire
2. Self-regulating conductive core
3. Inner adhesive jacket.
4. Modified polyolefin jacket
5. Tinned-copper braid
6. Modified polyolefin outer jacket (-CR)  
Fluoropolymer outer jacket (-CT)



**Features of FINE SRF Series**

1. Long life time (semi-permanent)

**SRF(s) Series** is post-treated under elevated temperature in annealing process to give its stability in long-term operation without losing heat output.

2. Low energy consumption

The electrical consumption of **SRF(s) Series** is low due to its unique PTC property.

3. Excellent heat resistance

**SRF(s) Series** is treated by irradiation crosslinking reaction, providing the same level of thermosetting property as XLPE.

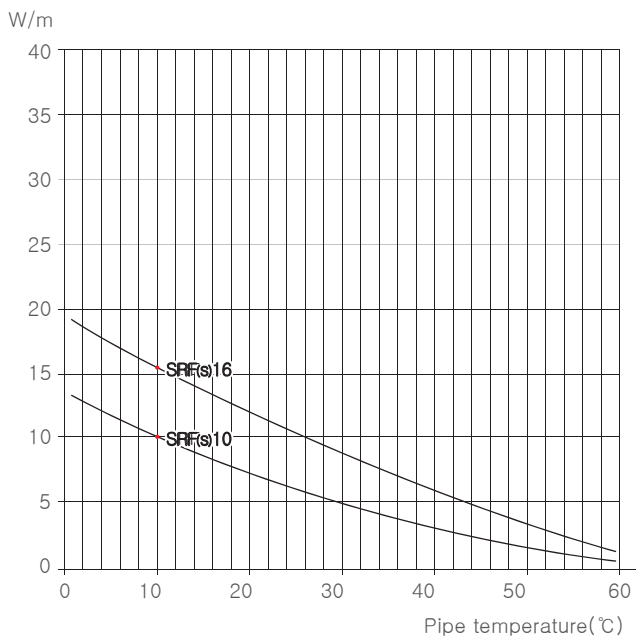
4. Cut to length

The heat generator of **SRF(s) Series** is composed of the infinite parallel connection of carbon particles, allowing it to be cut to the exact length required.

**Product characteristics and design information**

Nominal power output	10, 16 W/M	at 10°C
Max. maintenance temperature	65°C	
Max. intermittent exposure temperature	85°C	T-rating : T6
Service voltage	SRF(s)1	100 – 130 Vac
	SRF(s)2	200 – 254 Vac

## Power output graph



## Max. length (m) vs. Circuit breaker size

	Start-up temperature	110V				220V			
		10A	15A	20A	30A	10A	15A	20A	30A
SRF(s)10-CR/CT	10°C	70	-	-	-	120	-	-	-
	0°C	60	75	-	-	110	130	-	-
	-20°C	45	50	60	-	80	90	100	-
SRF(s)16-CR/CT	10°C	50	60	-	-	85	100	-	-
	0°C	45	50	60	-	80	95	100	-
	-20°C	30	40	50	60	60	75	90	100

## Certificate



**FINE KOREA CO.**