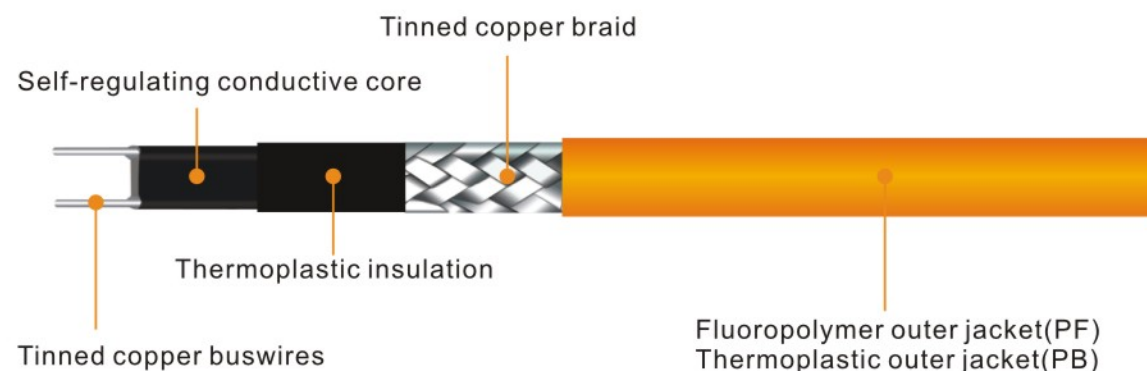


Cable Construction



Introduction

FSR Self Regulating Heating Cables provide the most versatility in heat trace designs and applications. Constructed of a semiconductive heater matrix extruded between parallel bus wires, a self-regulating cable adjusts its output to independently respond to ambient temperature all along its length. As temperature increasing, the heater's resistance increases which lower the output wattage. Conversely, as the temperature decreasing, the resistance decreases and the cable produces more heat. So it does not need thermostat in some applications. It will never overheat or burnout even when wrapped by itself (overlapped). It can also be cut to any length. The result — an energy efficient heating cable. with optional outer jackets, the heating cable is resistant to watery and inorganic chemicals and protect against abrasion and impacted damage.

Technical data

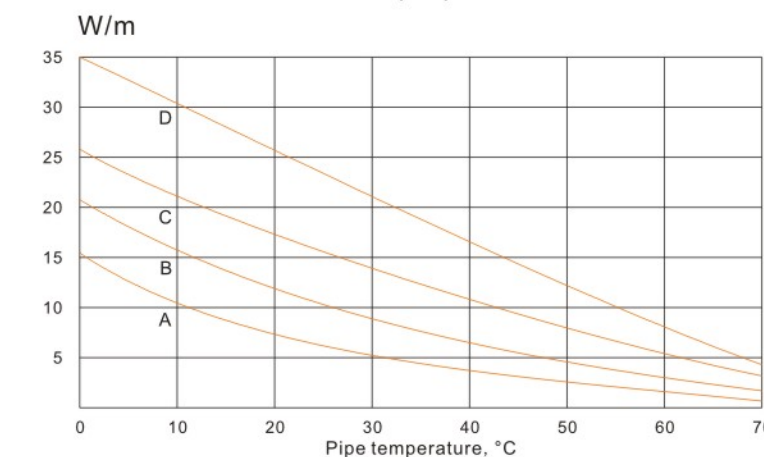
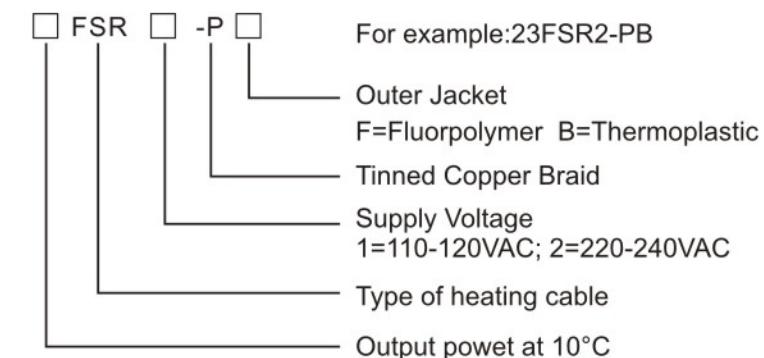
Output Wattage:	11, 17, 23, 31(W/m)
Maximum maintain temperature:	65°C
Maximum exposure temperature:	85°C
Minimum installation temperature:	-40°C
Work voltage:	110V-120V / 220-240V
FSR Series:	
FSR-P:	Tinned copper metal braid
FSR-PB:	Thermoplastic outer jacket
FSR-PF:	Fluoropolymer outer jacket
Max resistance of braid	≤18.2Ω/km
Bus wire gauge	18AWG
Approvals:	CE PC

Application

FSR is designed for commercial and residential metal and plastic pipe process temperature maintenance and frost protection of regular pipelines, tanks, valves, flanges. roof & gutter de-icing and other application where work under low temperature. A UV stabilized thermoplastic elastomer outerjacket is provided to cover the braid for wet applications and exposure to the sun. It is suitable for non-hazardous area, also hazardous area and corrosive area can use products with fluoropolymer outer jacket.

Power Output

Nominal power	A	11FSR
output at 230 VAC	B	17FSR
@+10°C	C	23FSR
	D	31FSR



Technical Summary

Part Number	Output power @ + 10°C (W/m)	Maximum maintain temperature (°C)	Max length @ +10°C 16/30A (m)	Max length @ + 0°C 16/30A (m)	Max length @ -20°C 16/30A (m)	Dimension (mm)	Weight (kg/100m)
11FSR-PB	11	65	120/145	121/140	108/120	10.4×5.3	8.4
11FSR-PF	11	65	120/145	121/140	108/120	10.1×5.0	8.0
17FSR-PB	17	65	115/120	106/120	95/115	10.4×5.3	8.4
17FSR-PF	17	65	115/120	106/120	95/115	10.1×5.0	8.0
23FSR-PB	23	65	75/100	72/91	65/84	10.4×5.3	8.4
23FSR-PF	23	65	75/100	72/91	65/84	10.1×5.0	8.0
31FSR-PB	31	65	51/65	45/61	40/55	10.4×5.3	8.4
31FSR-PF	31	65	51/65	45/61	40/55	10.1×5.0	8.0