



ESR

HIGH PERFORMANCE
SELF-REGULATING HEATING CABLE



INTRODUCTION

FSR self-regulating heating cables provide the most versatility in heat trace designs and applications. Constructed of a semi-conductive heater matrix extruded between parallel bus wires, a self-regulating cable adjusts its output to independently respond to ambient temperatures all along its length. As temperature increases, 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 thermostat is not necessary in some applications. It will never overheat or burnout even when overlapped. The cable can also be cut to any length. As the result, we get an energy efficient heating cable. With optional outer jackets, the heating cable is resistant to watery and inorganic chemicals and protected against abrasion and impacted damage.

TECHNICAL DATA

Power output — 11,17, 23,31 (W/m)
Maximum maintain temperature — 65°C
Maximum exposure temperature — 85°C
Minimum installation temperature — -60°C
Rated voltage — 110V-120V / 220V-240V

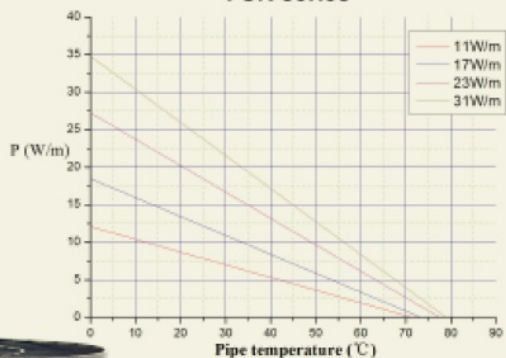
FSR SERIES

FSR-P — Tinned copper metal braid
FSR-PB — Thermoplastic outer jacket
FSR-PF — Fluoropolymer outer jacket
Max resistance of braid — $\leq 18.2\Omega/\text{km}$
Bus wire gauge — 18AWG

Certifications:



FSR series



ESR

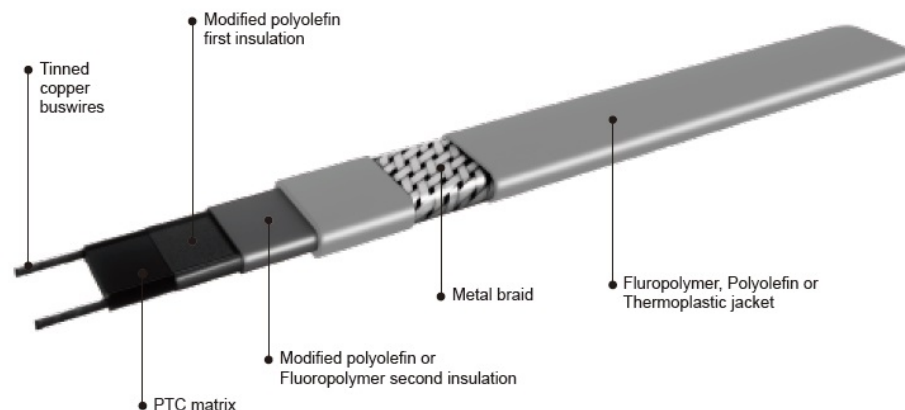
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APPLICATION

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 applications where work under low temperature. A UV stabilized thermoplastic outer jacket is provided to cover the braid for wet applications and exposure to the sun. It is suitable for non-hazardous area, and cable with fluoropolymer outer jacket can also be used in hazardous area and corrosive area.

FSR STRUCTURE



*Owns Russia patent for multi-layer co-extrusion technology, Patent No. 2708231

TECHNICAL SUMMARY

FSR Series	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	112/140	108/120	10.4×5.3	8.4
11FSR-PF	11	65	120/145	112/140	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

Cable dimensions are for reference only!