

GRX

Self-Regulating Heating Cable Gutter & Roof De-Icing

FINE GRX Series is a heating cable effective for de-icing on roofs, in gutters, and in downspouts. **GRX Series** is designed to withstand a harsh circumstance exposing for long term period to sun light containing high energy.

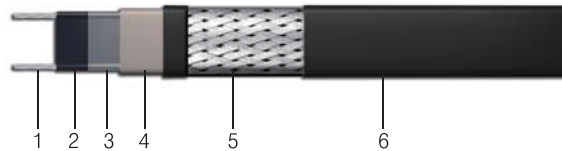
GRX Series consists of a continuous core of conductive polymer extruded between two copper bus wires. **GRX Series** regulates its own heat output depending on ambient temperature, as electrical current flows through the core.

The self-regulating function of **GRX Series** is due to PTC (Positive Temperature Coefficient) property, by which the electrical consumption of **GRX Series** is reduced in the application.

Unlike ordinary metal resistance wire which produces heat output corresponding to its length, the core of **GRX Series** is composed of the infinite parallel connection of carbon particles. The parallel circuitry allows the cable to be cut to the exact length required, with no wasted cable.

Product construction

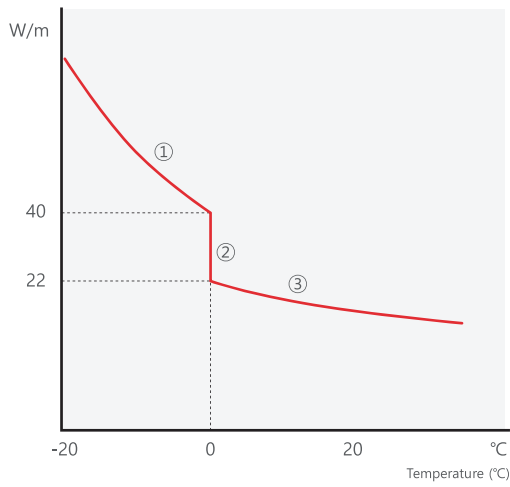
1. Copper bus wire (15AWG)
2. Self-regulating conductive core
3. Inner adhesive jacket
4. Modified polyolefin jacket
5. Tinned-copper braid
6. Modified polyolefin outer jacket (-CR)
Fluoropolymer outer jacket (-CT)



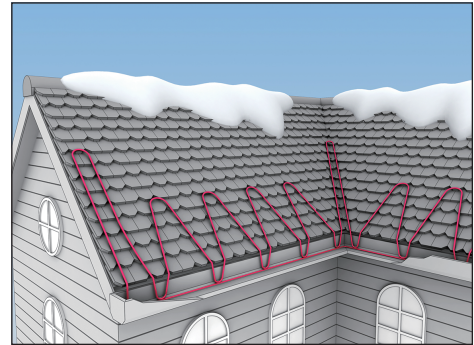
Product characteristics and design information

Nominal power output	40 W/M	in iced water
Max. maintenance temperature	90°C	
Min. installation temperature	-20°C	
Service voltage	GRX1	100 – 120 Vac
	GRX2	200 – 277 Vac

Power output graph



1. Heating cable in snow at high power
2. Snow melts and drains away heating cable in dry air at three quarters power
3. Then heating cable self-regulates in dry air



Max. length (m) vs. Circuit breaker size

	Start-up temperature	20A	30A	40A	50A
GRX40 - 1 CR/CT 120V	10°C	30	40	60	-
	0°C	28	37	55	60
	-20°C	23	30	45	55
GRX40-2 CR/CT 240V	10°C	60	80	120	-
	0°C	55	75	110	120
	-20°C	45	60	90	110

Certificste



Realted standards :
IEC 1423-1
IEC 1423-2



FINE KOREA CO.