

ENERPIA strives to create a warm and safe world.



Eco-friendly advanced heating system **Enerpia** Roof Snow Melting Fixed

Temperature Wire

Roof snow melting system that minimizes structural loss and various types of roof damage caused by snow loads during the winter season

Fixed temperature wires (non-electromagnetic heating cables) that generate constant heat can protect people and facilities from ice dams, falling icicles, roof leaks, and structural damage caused by melted snow and ice (sea ice water)



Why choose Enerpia Roof Snow Melting Fixed Temperature Wire?



The internal resistance changes according to the temperature change, allowing automatic adjustment of the amount of heat generated.



Safer from localized overheating or burnout



Self-regulated heater provides a great power saving effect and with a semi-permanent life span, it can be used safely without the need for separate maintenance.



Blocks electromagnetic waves for safety



Because it is an infinite parallel circuit, it is possible to cut and connect without wasting wires according to the use in the field.

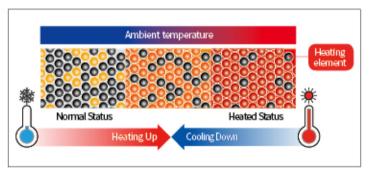


Semi-permanent life span without corrosion

Put your mind at ease with **Roof Snow Melting Heat Wire!**

This product has a self-regulating function that controls the amount of heat generated by changing the current flow according to the ambient temperature. It is a safe roof snow melting heat wire that does not cause fire due to overheating or heat storage.

Heating principle of fixed temperature wire



Self-regulating function that properly adjusts the amount of heat generated with the addition of PTC characteristics

With the addition of PTC characteristics, the external environment such as temperature rise, increase in electric resistance, decrease in current amount, and drop in temperature, are sensed by the particles of the heating element itself to control the current and control the amount of heat generated. This allows tight control over the power consumption and prevents overheating.

Fixed temperature wire cable that adjusts the amount of heat generated according to the ambient temperature!





Increase heat generation (in the case of drop in ambient temperature) Increased Current Path increases molecular activity,



Decrease heat generation (in the case of rise in ambient temperature) Decreased Current Path decreases molecular activity, resulting in decrease in the amount of heat generated

Enerpia fixed temperature wire melts snow on your roof without freezing even during the winter cold without worrying about electromagnetic waves!



Roof Snow Melting System Fixed temperature wire specifications by application

This is the best product that minimizes structural loss and roof damage caused by the weight of snow in winter resulting in safe protection of the roof and various house facilities!

Fixed temperature wire for melting snow on roofs that can be used reliably for a long period of time with excellent safety and one-off construction.

Fixed temperature wire specifications by application

ltem	Model no.	Length	Power	Max. allowed temperature	Temperature for continuous usage	Conductor	Size
Prevent freezing/ burst due to freezing	SRL 16-2CR	100M/roll	16	85°C	65°C	18AWG	11.0mm(W) x 6.5mm(H)
Floor heating	FSR 40-2CR	100M/roll	40	100°C	85°C	16AWG	12.8mm(W) x 6.8mm(H)
Roof snow melting	GR 40-2CR	100M/roll	40	85°C	65°C	18AWG	13.0mm(W) x 6.8mm(H)
Snow melting	FM 60-2CR	100M/roll	60	100°C	85°C	14AWG	19.2mm(W) x 9.1mm(H)

^{*}Standard heat quantity: 10W/m, 16W/m, 24W/m, 30W/m

^{*}Including bobbin, excluding box



No problem in any environment! specialist Can be installed an unk-

The fixed temperature wire for prevention of freezing/burst due to freezing is a cable whose output (heat output, power output) changes according to the temperature of a pipe or container. It has an infinite parallel structure, so the amount of heat generated per unit meter is constant regardless of the length, and the internal resistance is adjusted according to the change in the ambient temperature. This allows it to automatically increase or decrease the amount of heat generated through self-regulation.

Structure of fixed temperature wire for prevention of freezing/burst due to freezing(SRL 16-2CR)



Conductor

Supplies power Tin-plated copper wire, asbestos wire, TA

Heating element

Semiconductor heating element with PTC characteristics formulated with a semiconductive polymer material that forms an infinite parallel circuit

Internal insulator

Helps prevent the reduction of heat generated, underwent a high-temperature heat treatment process

Braiding

Protects the cable from external shocks, improves traction and shields electromagnetic waves.

Primary insulation sheath

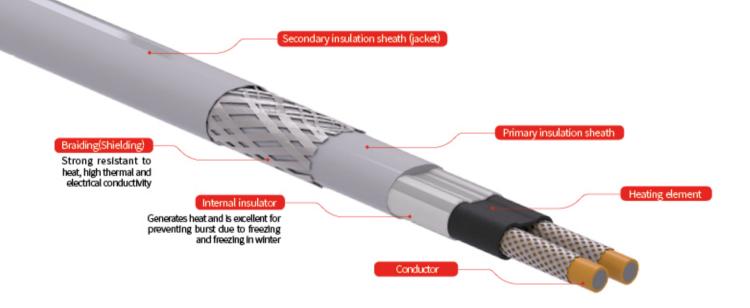
Provides mitigation against external thermal and physical shock Polyester (Bare Type)

Secondary insulation sheath (jacket)

No problem in any environment! specialist Can be installed an unbar Can be installed anywhere you want

The fixed temperature wire for floor heating is economical because the use of space is consistent compared to ordinary heating cables, and safe because it does not generate electromagnetic waves. Also, there is greater freedom in choosing the finishing materials, hence, it is used mainly for floor heating purposes at locations such as hotel lobbies and indoor floor heating.

Structure of fixed temperature wire for floor heating (FSR 40-2CR)



Conductor

Supplies power Tin-plated copper wire, asbestos wire, TA

Heating element

Semiconductor heating element with PTC characteristics formulated with a semiconductive polymer material that forms an infinite parallel circuit

Internal insulator

Helps prevent the reduction of heat generated, underwent a high-temperature heat treatment process

Braiding

Protects the cable from external shocks, improves traction and shields electromagnetic waves.

Primary insulation sheath

Provides mitigation against external thermal and physical shock Polyester (Bare Type)

Secondary insulation sheath (jacket)

No problem in any environment! specialist Can be installed an unk-

The fixed temperature wire for roof snow melting has strong UV-resistant properties thanks to the addition of a UV stabilizer, which prevents the product from sunlight due to outside exposure, and hence, has excellent durability.

This cable is designed to minimize structural loss and various types of roof damage caused by snow loads.

Structure of fixed temperature wire for roof snow melting(GR 40-2CR)



Conductor

Supplies power Tin-plated copper wire, asbestos wire, TA

Heating element

Semiconductor heating element with PTC characteristics formulated with a semiconductive polymer material that forms an infinite parallel circuit

Internal insulator

Helps prevent the reduction of heat generated, underwent a high-temperature heat treatment process

Braiding

Protects the cable from external shocks, improves traction and shields electromagnetic waves.

Primary insulation sheath

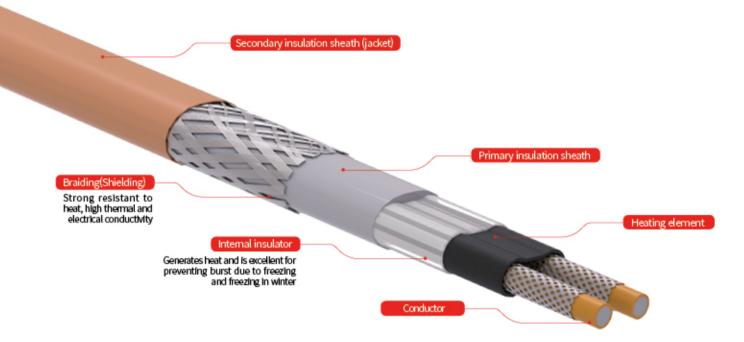
Provides mitigation against external thermal and physical shock Polyester (Bare Type)

Secondary insulation sheath (jacket)

No problem in any environment! specialist Can be installed an unbar

The fixed temperature cable for melting snow and deicing is a cable to prevent damage to people and vehicles due to freezing of the road surface in winter, and can be installed at the entrance of roads and parking lots or in snow-prone areas. It can be used semi-permanently once constructed.

Structure of fixed temperature wire for snow melting(FM 60-2CR)



Conductor

Supplies power Tin-plated copper wire, asbestos wire, TA

Heating element

Semiconductor heating element with PTC characteristics formulated with a semiconductive polymer material that forms an infinite parallel circuit

Internal insulator

Helps prevent the reduction of heat generated, underwent a high-temperature heat treatment process

Braiding

Protects the cable from external shocks, improves traction and shields electromagnetic waves.

Primary insulation sheath

Provides mitigation against external thermal and physical shock Polyester (Bare Type)

Secondary insulation sheath (jacket)

A company you can trust! Enerpia

Certificates of Enerpia



Certificate Of Patent (No. 10-1746775)



CE



Certificate of the company-affiliated research institute



Design registration certificate



Letter of Q-Mark designation



G-PASS certificate



Letter of designating as a promising export SME



Design Registration/ Inno-Biz



Russia GOST Standard



Quality management systém certificate



Letter of pre-star company designation



Certificate of the company specialized in material parts



CU (Russia compulsory certification)



Environmental management system certificate



Membership card of the Korea International Trade Association



Venture company certificate

The only Company in the Field That carries out the whole process of Manufacturing to Construction

Construction method

Enerpia provides convenience to our customers with our total solution - from design to repairs after construction completion.









Enerpia is creating a safe space. Smart heating specialist

Safe winter with Enerpia Roof Snow Melting System!

The fixed temperature wire used for temperature maintenance minimizes various losses caused by snow in winter, and is an excellent and economically feasible heating wire with strong durability and a long lifespan.

Installation recommended in various places.

Enerpia roof snow melting fixed temperature wire is suitable for places where boiler installation is inconvenient, and where temperature maintenance is needed (roofs of various facilities such as houses, vinyl houses, warehouses and resorts).





Warehouse

Housing





Facilities

Resorts

The center of global connection! It all starts here, in Korea.

Enerpia is a global company that has successfully entered markets in 28 countries.

Enerpia is a global company that has successfully entered markets in 28 countries including Russia and Europe.



Smart heating specialist ENERPIA HEATING SYSTEM

A new revolution! An eco-friendly heating system

A company completed with its extensive experience and patented technologies

Enerpia puts customers and the environment first



The only company in the industry that both manufactures and constructs the product

Enerpia provides convenience to our customers with our total solution - from design to repairs after construction completion.



I Main office . 349-13, Samunjin-ro, Hwawon-eup, Dalseong-gun, Daegu I Tel. +82-53-474-8050 I Fax. +82-53-473-8050

I E-mail. master@enerpia.co.kr

I China Branch . Xiguozhuang Industrial Park, Chengyang District, Qingdao City, Shandong Province, China

URL. www.enerpia.com





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