

The best in the world

Heat Tracing Total Solution Leader



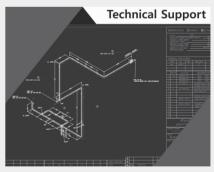










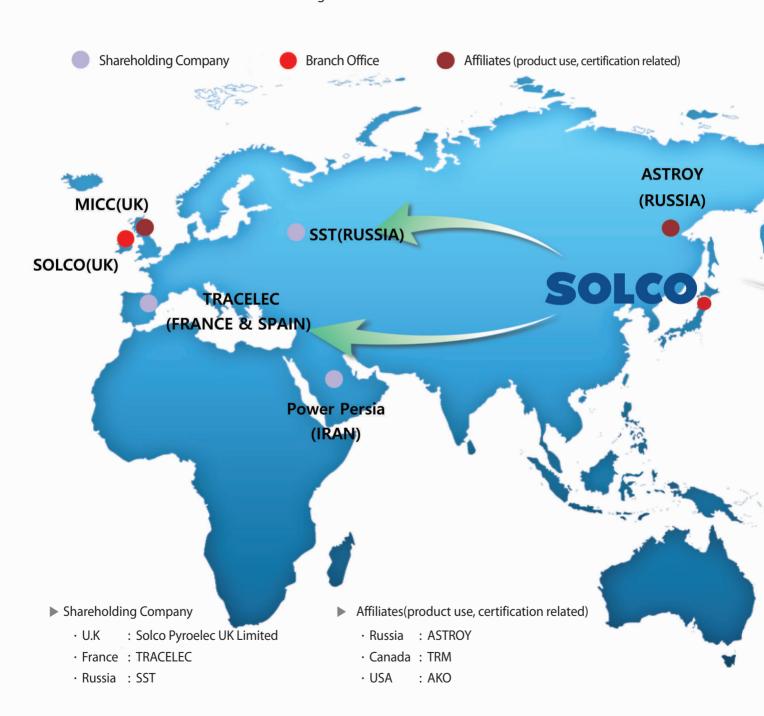


Solco Thermal Co., Ltd. www.solcothermal.com

WORLDWIDE NETWORKING

SOLCO has valuable worldwide network thanks to strategic alliance with European customers in Russia, U.K. and France, Spain.

SOLCO has established a network of mutual growth with over 200 domestic and overseas customers.



SOLCO is the one stop total heat tracing solution provider of design, production, construction, maintenance, etc. And we provide the electrical equipment for industrial use and shipbuilding and marine. Moreover, it is a specialized company that develops, certifies, produces and supplies to business partners worldwide. SOLCO management philosophy is based on quality, innovation, and continuous development. We promise to do our best to meet the customer's needs.

Major Partners



BUSINESS INNOVATION

SOLCO.

SOLCO, the leader of Explosion-proof heat tracing system suppliers, provides global trace heating solutions including development and manufacturing of industrial heating cables, Ex certified components and heating jackets as well as thermal design, on-site installation, certification and periodic maintenance.

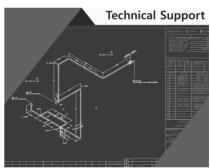












■ Core Technologies

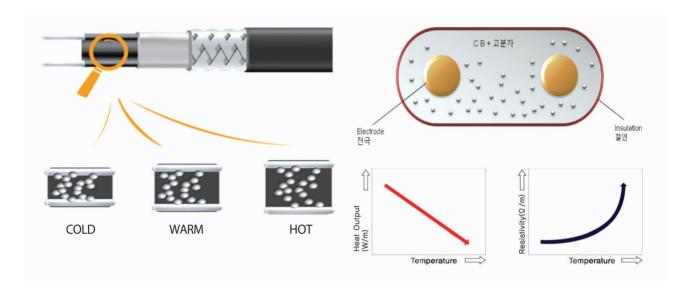
- · Industrial heat-tracing cables and components
- · Ex leak detection cable system
- · Ex heating jacket for gas cylinders
- · Temperature control and monitoring devices
- · Processing technology of electrical conductive composite
- · Extrusion and injection mold process of polymers
- · Design, manufacturing and approval of Ex products



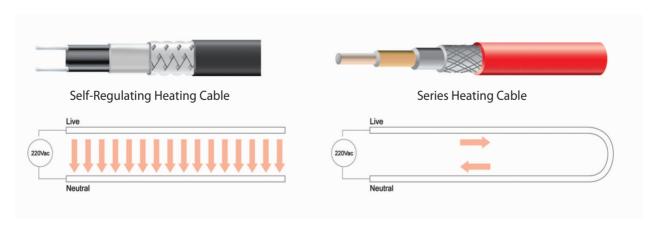
SELF-REGULATING HEATING CABLE

Core Technology of Self-Regulating Heating Cable

Self-regulating heating cable internal heating element is a characteristic of conductive carbon composite, which changes the resistance and output value depending on the ambient and the temperature of the installation structure, and maintains the required temperature.



Comparison of Heating Cable Products



■ Infinite Parallel Circuit

- No Possibility of overheat or burning due to fire
- No need to use separate temperature control device
- Can be cut according to site conditions
- Change in calorific value depending on ambient temperature

■ Serial Circuit

- Always the same output regardless of ambient temperature change
- Always use with thermostat or safety service
- Designed circuit length can not be modified In the site

Heating Cable & System





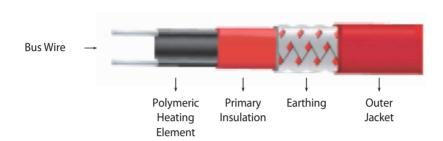












FBL Self-Regulating Heating Cable













The FBL family of self-regulating heating cables is capable of maintaining process temperatures up to 65°C and used to prevent freezing of pipes and tanks.



- Max. maintain or continuous temp. 65 °C (Power On)
- Max. continuous exposure temp. 85°C (Power Off)
- Rated output 10, 16, 24, 30 W/M at 10℃
- T-Rating T6
- Supply Voltage 100~120, 200~277 Vac
- Maintain process piping temperature (Low temperature)

Self-Regulating Heating Cable











The FBH family of self-regulating heating cables is capable of maintaining process temperatures up to 110°C and used to prevent freezing of a large pipe of plants and, ships, tanks.



- Max. maintain or continuous temp 110°C (Power On)
- Max. continuous exposure temp 135°C (Power Off)
- Rated output 15, 30, 45, 60 W/M at 10°C
- T-Rating T4
- Supply Voltage 100~120, 200~277 Vac
- Maintain process piping temperature (Medium temperature)

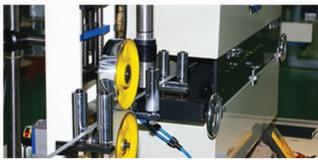












FBX Self-Regulating Heating Cable













The FBX Family of self-regulating heating cables is capable of maintaining process temperatures up to 150°C and used to prevent freezing of a large pipe of plants and vessels, tanks.



- Max. maintain or continuous temp 150°C (Power On)
- Max. continuous exposure temp 200°C (Power Off)
- Rated output 15, 30, 45, 60 W/M at 10°C
- T-Rating T2, T3
- Supply Voltage 100~120, 200~277 Vac
- Preventing steam purge piping from freezing
- Maintain process piping temperature (High temperature)

FBZ Self-Regulating Heating Cable



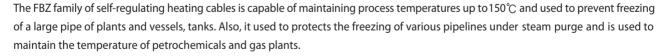














- Max. maintain or continuous temp 150°C (Power On)
- Max. continuous exposure temp 240°C (Power Off)
- Rated output 15, 30, 45, 60 W/M at 10°C
- T-Rating T2, T3
- Supply Voltage 100~120, 200~277 Vac
- Preventing steam purge piping from freezing
- Maintain process piping temperature (High temperature)

SFC Series Heating Cable







The SFC series heating cables can maintain process temperatures up to 120°C and can be installed up 4km with a single power supply. It is suitable for extreme weather conditions and is suitable for preventing the freezing of the temperature of the external tank and long-distance pipe. It is for single phase power connection.



- Max. continuous exposure temp 150°C (Power Off)
- Max. intermittent exposure temp 250°C (Power Off)
- Rated Voltage: 600 Vac
- Max heat density 40 watt/m
- Cable size varies depending on conductor size
- · Conductor size and out jacket selection
- · Circuit length up to 4,000m

LLC 3-Phase Heating Cable







The LLC family of Teflon-insulated heating cables can maintain process temperatures up to 120℃ and can be installed up 4km with a single power supply. It is suitable for extreme weather conditions and is suitable for preventing the freezing of the temperature of the external tank and long-distance pipe. It is for 3-phase power connection.



- Max. maintain temp 90°C (Power On)
- Max. continuous exposure temp 135°C (Power Off)
- Rated Voltage: 1,000 Vac
- Max heat density 30 watt/m
- Cable size varies depending on conductor size
- Circuit length up to 4,000m

MI Mineral Insulated Heating Cable









The MI family of Mineral insulated heating cables can maintain process temperatures up to 600 ℃. It is most suitable product for high temperature maintenance process requiring prevention of corrosion and prevention of industrial freeze. It has mechanical strength and chemical characteristic applies to extreme situations where high temperatures must be maintained for long periods of time in critical areas.



- · Maximum operating temperature Copper sheath 200°C Cupronickel sheath 400°C
- Electrical Parameters Supply voltage up to 500Vac (assembled unit) Supply voltage up to 750Vac (cable)

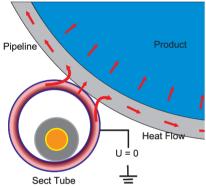






The STS Skin trace heating system can maintain process temperatures up to 150°C, and applied to long-distance pipeline pipe of 30km or more.







Product Features

- The only one method of heating pipelines up to 30km with single power supply
- The ultimate heat efficiency
- Save cabling cost for power supply
- Zero electrical potential on outer surface of heat tube
- · Long service life

Product Principles

• STS's Skin Trace System generates heat by using the current induced on the pipe surface due to the conductor inside the Pipe.

Product Construction

- The Skin Trace System can be designed and applied to maintain temperature and prevent freezing of long-distance pipeline.
- The STS can control a 30km pipeline with only one power supply.
- It is a solution that can save you an excellent heat efficiency and cost for pipelines over 3km.



Engineering Plastic & Aluminum Enclosure















PYEX-EP-JB Engineering Plastic Enclosure







PYEX-EP-JB, Engineering (Glass Fiber Reinforced) Plastic box family Which is installed directly on the pipe and used for power wiring, distribution, end termination (LED lamp type selection), temperature sensor.



PYEX-EP-JBP

- Power termination
- Surface resistance(<10 9 ohm)
- · Resistance to impact, heat, UV
- · IP66
- · Ex eb II C Gb



PYEX-EP-JBS

- Distribution
- · Surface resistance(<10 9 ohm)
- · Resistance to impact, heat, UV
- · IP66
- · Ex eb II C Gb

PYEX-SS-JB Stainless Steel Enclosure

PYEX-SS-JB, Stainless Steel Enclosure family which is installed directly on the pipe with SUS-mounting. Excellent durability and weatherproof make it possible to install in extreme environments.



PYEX-SS-JBS

- · Power connection / Distribution
- · IP66/67
- · Ex eb II C Gb Db T6...T2

HACC Aluminum Connection Enclosure



HACC, the reinforced aluminum connection circular enclosure is installed directly on the pipe and used for power connection, distribution, end termination, temperature sensor.



HACC-PK-P

- · Power connection
- · IP65
- · Exd II C T6



HACC-TK-P

- · Tee connection
- · IP65
- · Ex d II C T6

PYEX-AE Aluminum Connection Enclosure









PYEX-AE, the reinforced aluminum connection enclosure is installed directly on the pipe and used for power connection, distribution, end termination, temperature sensor.



PYEX-AE-P

- · Power termination
- · Aluminum enclosure
- · IP66
- · Exe II C Gb



PYEX-AE-TC

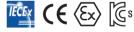
- · RTD Sensor connection
- · Aluminum enclosure
- · IP66
- · Exe II C Gb



PYEX-AE-E

- · End termination
- · Aluminum enclosure
- IP66
- · Ex e II C Gb

PYEX-EP-SPK Engineering Plastic Mini Enclosure









PYEX-EP-SPK is the engineering plastic enclosure for power connection and/or splice connection of heating cable. It is small and water-tight(IP65), so to be installed under insulation.



PYEX-EP-SPK-P · Heating cable + Power connection

PYEX-EP-SPK-S · Heating cable splicing

PYEX-EP-SPK-E • End termination

· Easy connection

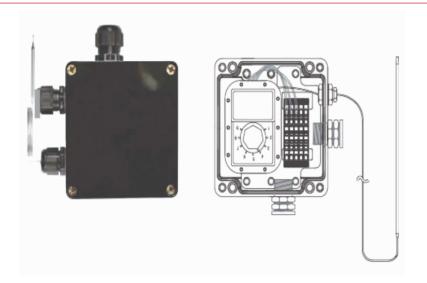
· IP65

· Ex eb II C Gb

PYEX-EP-MTS12 Ex-proof Thermostat



PYEX-EP-MTS12, Engineering(Glass Fiber Reinforced) Plastic box temperature sensing and control device is able to control temperatures from -20°C to 40°C for explosion-proof areas.

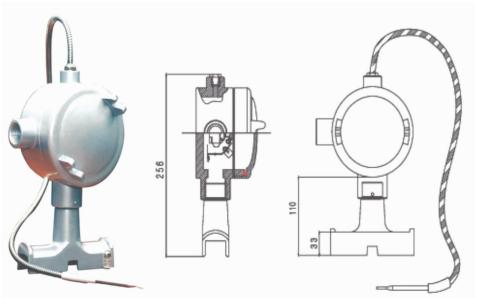


- · Control range : -20°C ~ 40°C
- · IP66
- · Exde II C
- · Capillary length: 870mm
- · Ex cable gland M25

HACC-TSK-P Ex-proof Thermostat



HACC-TSK-P is explosion aluminum enclosure fitted with thermostat control unit, which detects the temperature of each circuit of pipeline or vessel and locally controls it for ultimate efficiency and safety. It is made of special-grade aluminum to meet the required pressure tests against explosion or ignition explosive gas or dust. The flame-proof gaskets stops the ingression of water and dust.



- · Control range : 0°C ~ 110°C
- · IP65
- · Ex d II C Gb
- · Capillary length: 750mm

Heating Jacket

FBJH-SR Ex-Silicon Heating Jacket











FBJH-SR is a heating jacket made of fiber-glass and reinforced silicone pads. It is used for gentle heating and maintaining of temperature and freezing protection on explosion proof and general cylindrical structure (chemical tank, etc.)



Product Features

- Explosion proof heating jacket for various containers
- Wire type or etched foil type heating element
- Flat heating element for highly efficient thermal performance
- Glassfiber reinforced silicone rubber substrate for high thermal endurance
- Flexible and excellent mechanical strength
- Easy installation and fast response
- · Resistance to heat, oil and chemicals

FBJH-GR Ex-Glass Fiber Heating Jacket











FBJH-GR is a heating jacket made of glass-reinforced fiber with aluminum wrapping. It is used for explosion proof and gentle heating and keeping temperature in general area, and to prevent freezing of chemical tank. It is used to prevent freezing of ship or offshore structure.



Product Features

- Explosion proof heating jacket designed for various containers
- Easy installation and fast response
- Aluminum backed glass fiber fabric for ultimate thermal endurance
- Flexible and excellent mechanical strength
- Resistance to heat, oil and chemicals
- · Long service life

Control Monitoring System

SKY TRACE Control and Monitoring Internet Solution

Sky Trace is software for efficient control and management of heat tracing systems. Energy measurement data of the place where the heating tracing installed is measured in real time and the pre-alarm, efficient management is available.



Product Features

- Web-based
- integration into process diagram
- Quick response and maintenance
- Pre-maintenance analysis
- Energy optimization analysis
- Heating cable performance analysis
- Simultaneous monitoring
- · Alarm analysis
- Easy operation
- Auto update
- Alarm priority
- Superior security

System Processing



PLAN CONTROL Control and Monitoring System

Plan Control is a modular monitoring control system panel for efficient and effective management of heat tracing. Linked multiple heat traces to Plan Control controls the load and leakage current. And the modular structure makes it easy to expend and change the system to suit various industrial sites. It can also be controlled by a central control system linked to Sky Trace.







Product Features

- Control thousands of heat tracing circuits
- Customizable features and panels
- EMR and SSR conversion options
- Integrated automation system
- Load and leakage current system
- Explosion-proof heating
- 3 user interfaces
- Channel D Provide handling tool
- Channel panel Touch screen
- Management of Sky Trace Software

BLUETRACE Trace Heating Controller

Blue Trace is an intelligent circuit controller designed to manage single heat tracing. With programmable I/O, Blue Trace offers optimal functionality even in areas where special conditions are required. And durability and simple wiring can be used in various industries.







Product Features

- Intelligent single-circuit controller
- Single phase / Three phase x Max. 50[A]
- Integrate into automation systems
- Individual installation or group installation

COMPONENTS

Accessories for Heat Tracing System























APPLICATION

Industrial Plant / Shipbuilding & Marine

Reliable and competitive heating cable systems and Ex heating jackets have been widely accepted in various industries such as architecture, gas, oil, petro-chemical, ship-building and semi-conductor industry for their outstanding performance.

Industrial & Plant

- Pipe Tracing
- Tank and Vessel Heating
- Skin Trace Heating
- Gas Cylinder Heating
- Longline Pipe Tracing







Commercial & Architecture

- Freeze Protection
- Floor Warming
- Snow Melting & De-icing
- Leak Detection





Shipbuilding & Marine

- Winterization
- Anti-icing / De-icing
- Maintain Temperature
- Freeze Protection







CERTIFICATES

Certificates for Heat Tracing System











































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