Kompensator®

Low Voltage Custom Manufactured Pipe Freeze Protection Made to Suit Various Applications

Kompensator systems are low voltage heating cables which are used in freeze protection applications for both metallic and non-metallic pipes, tubes, and hoses. These high quality heating cables are designed to be used in a variety of freeze protection applications including the transportation industry and are compatible with off-grid (solar and wind) and battery/alternator systems.



SCAN ME

See more product information, videos, photos, technical documents, and more

Kompensator

Features & Benefits

- The only job-ready low voltage heating cable system available
- Factory finished, job-ready – minimized liability for installer
- Each finished system is tested prior to shipment
- Manufactured to finished lengths for individual service requirements
- Customizable for various application requirements
- Compatible with DC and AC voltages
- Compatible with off-grid (solar and wind) and alternator battery generators
- Compatible with various methods of power generation including battery alternators
- Can be directly connected to alternator systems without need of inverters
- Continuous ground path
- Suitable for multiple pipe sizes both metal and plastic
- Can be fully insulated to maximize energy efficiency
- Thermostat is an available option
- Will never melt or overheat, even if pipe is dry
- Can be used to protect, pipes, hoses and more
- Suitable for direct burial and wet location
- Can be overlapped without concern of overheating
- Intended for ordinary locations only

For more Features and Benefits common to all Heat-Line systems, refer to page 6.



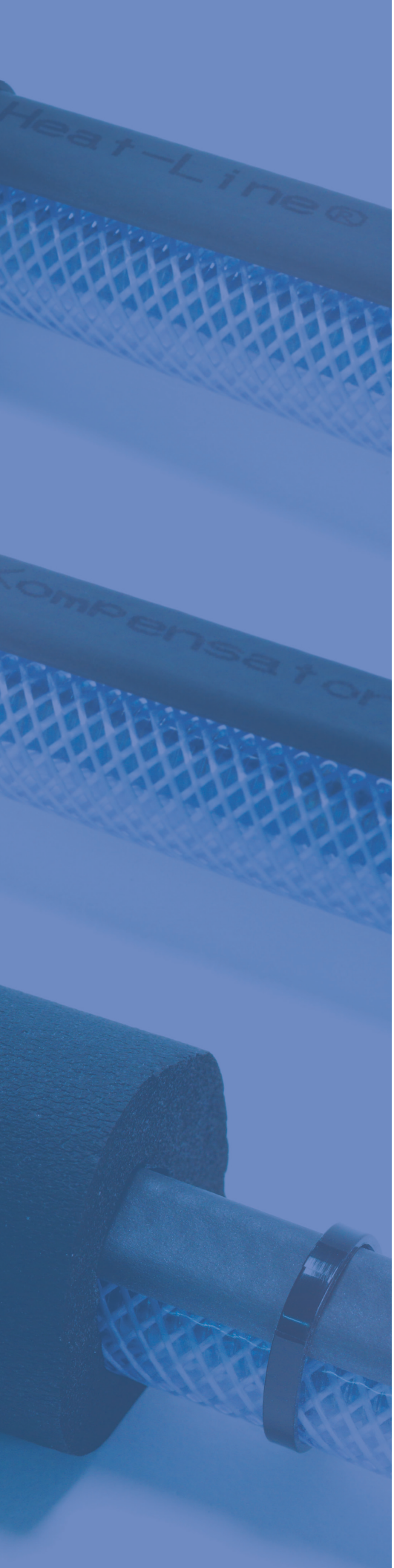
Specifications

- Low voltage heating cable
- Self-regulating/conductive polymer heating cabler
- Thermo Plastic Elastomer (TPE) jacket
- Standard wattage 3 W/ft @ 50ºF (10 W/m @ 10ºC) and 5 W/ft @ 50ºF (16 W/m @ 10ºC)
- Available in 12V and 24V
- Max lengths 12V - 40 ft, 24V - 60 ft
- Supplied with 6 ft supply cord for direct hard wire connection
- Standard warranty of 1 year
- Suitable for exposure temperatures up to 150°F (65°C)

Applications

- Transportation industry including fire and fluid delivery trucks
- Hydraulic and condensate fluid lines
- Existing water supply lines subject to freezing
- Small diameter water supply lines
- Large diameter pipes
- All metal and plastic pipes
- Rubber and PVC Hoses
- Metal tanks
- Non-metal tanks
- Farms, agriculture
- Commercial, industrial
- Camps
- Mining





Job Ready System

Kompensator systems are the only low voltage, factory finished, job-ready heating cable systems that are designed to provide safe, efficient and reliable freeze protection.

Applied to Outside of Pipe

Kompensator is designed to be applied to the outside of the pipe, making it suitable for both small and large pipe diameters. Traditional heat tapes must be pitched or spiraled around the pipes in order to apply an adequate amount of heat, making them very high in energy consumption.

Install in Single Run

In most applications, the Kompensator system is installed in a single run, reducing the overall length of product by as much as 60 percent. For large pipe diameters or where more heat is required, a dual (double) trace system is adequate, which still saves on product length.

Oil Lines, Pumps, Hoses

The Kompensator system is so versatile that it can be used in a variety of applications where 12 and or 24 volt power is available, including but not limited to, small diameter hoses, appliance and comfort heating, condensate freeze protection, oil lines, hydraulic hoses, pumps and compressed air systems.

Transportation Industry

When used in the recreational vehicle and transportation industry, Kompensator systems are capable of maintaining hydraulic oil and other fluid viscosities in cold temperatures, minimizing stress while maximizing winter performance.

Safe on Plastic and Metal

Kompensator is safe to use on all pipe and hose materials, including plastic and metals, even if there is no water in the pipe. Insulation and a thermostat can be added to the system to further optimize energy efficiency. Heat-Line offers a low voltage thermostat option which can be used to duty cycle and regulate the heating cable system within a specific temperature range.

Simple, Fast, Cost Effective

Kompensator is factory finished to length and provided with a complete set of installation instructions making installation simple, fast and cost effective.

Customizable

Kompensator is a common OEM product completely customized for specific applications. Even single orders can easily be customized without time delay.

Kompensator | Product Code Guide

Example: **KHL123– 040 – CS**

Product

KHL123	12 V	Kompensator 3 W/ft @ 50°F (10 W/m @ 10°C)
KHL125	12 V	Kompensator 5 W/ft @ 50°F (16 W/m @ 10°C)
KHL243	24 V	Kompensator 3 W/ft @ 50°F (10 W/m @ 10°C)
KHL245	24 V	Kompensator 5 W/ft @ 50°F (16 W/m @ 10°C)

Cord-Set Type

CS	Cord connected (No GFCI)

Length of System

3 W/ft 12 V max length 40 ft
5 W/ft 12 V max length 30 ft
3 W/ft 24 V max length 60 ft
5 W/ft 24 V max length 40 ft

NOTE: It is the requirement of the installer to provide proper voltage regulation and over-current protection. It is also the recommendation of Heat-Line that since the power consumption of the product can never be 0 to install a shut-off switch to prevent the draining of batteries or power supply. Only available in Modified Polyolefin outer heating cable jacket.

Kompensator | Accessories

KHJ-STAT-2	6/28V thermostat
INSUL-1.00	Insulation sleeve for 1 inch ID pipe (1 5/8 inch ID, 6 ft long)
INSUL-1.25	Insulation sleeve for 1 ¼ inch ID pipe (1 7/8 inch ID, 6 ft long)
INSUL-2.00	Insulation sleeve for 2 inch ID pipe (2 5/8 inch ID, 6 ft long)
INSUL-PAD	Elastometric flexible insulation (10 ft long, 6 inch wide, ½ inch thick)
HLP-TAPE	Tape for insulation sleeve butt joints (100 ft)
INSUL-FOIL	Aluminum bubble foil insulation (16 in wide, sold by the foot)
FOIL-TAPE	All weather aluminum foil tape (150 ft)
PLD-CG	Cable guards/protectors (pkg of 4, 6 in each)

Kompensator | Sample Application on Water Hauler Gate Valve

