



AN INTRODUCTION



1974 - 2014





Worldwide Representation

Corporate HQ & Primary Manufacturing Plant - Helsby, England Technology & Innovation Centre - Bredbury, Stockport, England

AFFILIATES

KOREA Heat Trace Korea - Korea

CHINA Heat Trace Asia - P.R.China

SOUTH AMERICA Heat Trace Argentina - Argentina

INDIA Heat Trace India Pvt Ltd - India

EASTERN EUROPE Heat Trace Eastern Europe - Germany

MIDDLE EAST Heat Trace Middle East - UAE

Represented around the world in over 50 countries



United States Representation





Neptech Inc. is the primary distributor of Heat Trace Products for the United States of America.

Headquarters: 2000 East Highland Road, Highland, MI 48357

Phone: 810.225.2222

Fax: 810.225.1155

Websites: www.neptechinc.com | www.flexotherm.net





A Quality Company



Quality Assured for Design, Manufacture & Supply



Standards & Approvals

Heat Trace takes an active role in the development and implementation of electric heat tracing industry standards. All of Heat Trace's products conform to several International Standards, some of which are listed below:



ATEX

EN60079-0; IEC60079-31 & IEC62086-0





IECEx

IEC60079-0 & IEC60079-1



FM

ANSI/IEEE Std 515



VDE

114665 DIN VDE 0254



CSA

C22.2 Nos. 130.1; 130.2; & C22.2 No. 138



Lloyds

EN50014, EN50019, BS6351, IEEE Std 515



GOST R

РОСС GB.ГБ05.B02364 GOST R 51330.0-99

(M3K 60079-0-98) GOST R 51330.8-99



Research & Development

On average, engineering/manufacturing companies invest about 2 to 4% of turnover in Research & Development

Funding for R&D is critical if we are to grow to meet the changing needs of customers ahead of the competition

Heat Trace invests over 15% of turnover in R&D

Innovation led technology and a strong global marketing strategy, means new and lucrative markets become available, ensuring continued growth and success



GENERAL OVERVIEW OF HEAT TRACE'S PRODUCT RANGE



Full Range of Heating Cables

... the most complete range of heating cables available from one source!

... with longest circuit lengths and highest withstand temperatures!

... all self-regulating cables incorporate Inherently Temperature Safe technology



Self-Regulating Heating Cables

Freezstop Low & Medium Temperature Range

FREEZSTOP MICRO - FSM

Withstand temperatures 65°C ON/85°C OFF Outputs 11 - 17W/m

FREEZSTOP LITE FSLe

Withstand temperatures 85°C ON or OFF Outputs 12 - 31W/m

FREEZSTOP REGULAR FSR

Withstand temperatures 85°C ON or OFF Outputs 10 - 40W/m

FREEZSTOP EXTRA FSE

Withstand temperatures 100°C ON or OFF Outputs 17 - 60W/m



Please note: All HTL heater withstand temperatures are NOT restricted by cumulative operating hours



Self-Regulating Heating Cables

FailSafe High Temperature Range

FAILSAFE PLUS FS+

Withstand temperatures 225°C ON or OFF Outputs 15 - 60W/m Silicone rubber primary insulation. Option for braid <u>or</u> continuous metal jacket. Optional corrosion resistant outer jacket



FAILSAFE SUPER FSS

Withstand temperatures 225°C ON or OFF Outputs 15 - 75W/m Fluoroplymer primary insulation. Option for braid <u>or</u> continuous metal jacket. Optional corrosion resistant outer jacket



FAILSAFE ULTIMO FSU

Withstand temperatures 250°C ON or OFF Outputs 15 - 100W/m



FAILSAFE ALUMINIUM AFS

Withstand temperatures 300°C ON or OFF Outputs 15 - 150W/m Mineral primary insulation. Continuous metal jacket. Optional corrosion resistant outer jacket



Please note: All HTL heater withstand temperatures are NOT restricted by cumulative operating hours



Parallel Constant Power Heating Cables

High Temperature Range

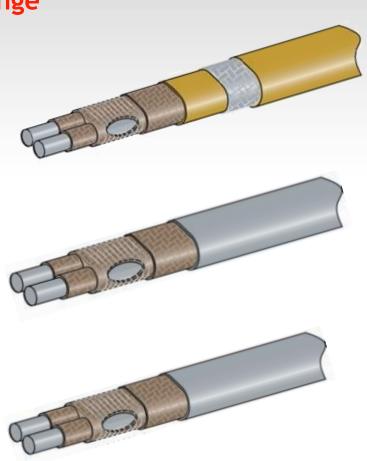
Heat Tracer PHT withstand temperatures 285°C Outputs 10 - 70W/m

Heat Tracer AHT withstand temperatures 425°C Outputs 10 - 150W/m

NO COMPETITION!!

Heat Tracer RHT withstand temperatures 425°C Outputs 50 - 200W/m (Rail heating applications)

NO COMPETITION!!





Series Constant Power Cables

Longline HTP1 & 3F

1F up to 5km; 3F up to 2km between supply points
Withstand temperatures 105°C

Longline HTS1 & 3F

1F up to 5km; 3F up to 2km between supply points Withstand temperatures 230°C

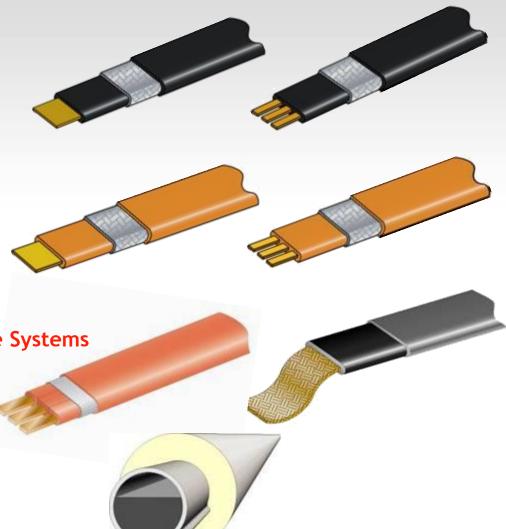


Up to 20km between supply points withstand temperatures up to 230°C

NO COMPETITION!!

SkinTrace

Up to 30km between supply points withstand temperatures 230°C





Control & Monitoring Systems



Mechanical & Digital Thermostats

Ambient or surface sensing capillary or digital thermostats suitable for safe and/or hazardous areas, with a variety of temperature and current ranges

Microprocessor-Based Systems

Computer assisted energy management and auditing system for critical and/or large heat tracing installations, offering multiple circuit control, including:

Temperature monitoring
Heating cable monitoring
Energy efficiency
Remote control and data acquisition
Integration with plant DCS/SCADA systems





PowerMatch Micro+ Controller

PowerMatch Micro+ (PMM+)



APPLICATIONS

Freeze protection

Process Heating

BENEFITS

Significant energy savings

Fewer controls

1 unit controls multiple circuits

Reduced overall system cost

Optimises system safety

Remote alarm facility



NICHE MARKET APPLICATIONS

Long Cross Country Pipelines

Subsea Pipeline Heating Systems

Helicopter Platform Heating

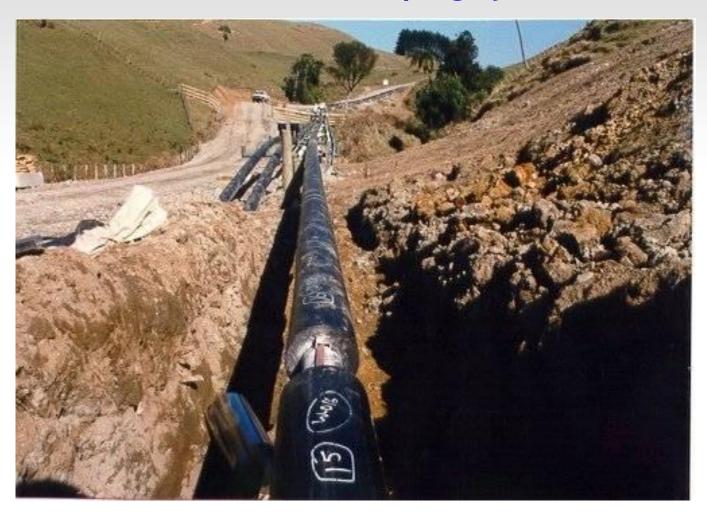
Downhole Heating Systems

Transportation Systems



Long Cross Country Pipelines

Pre-Insulated Heated Piping Systems





Subsea Pipeline Heating Systems

2011 - World's 1st Electrically Trace Heated Reeled P-i-P



DuoFlex & LongLine (SP) ETHPiP ... Developed in partnership with

Technip



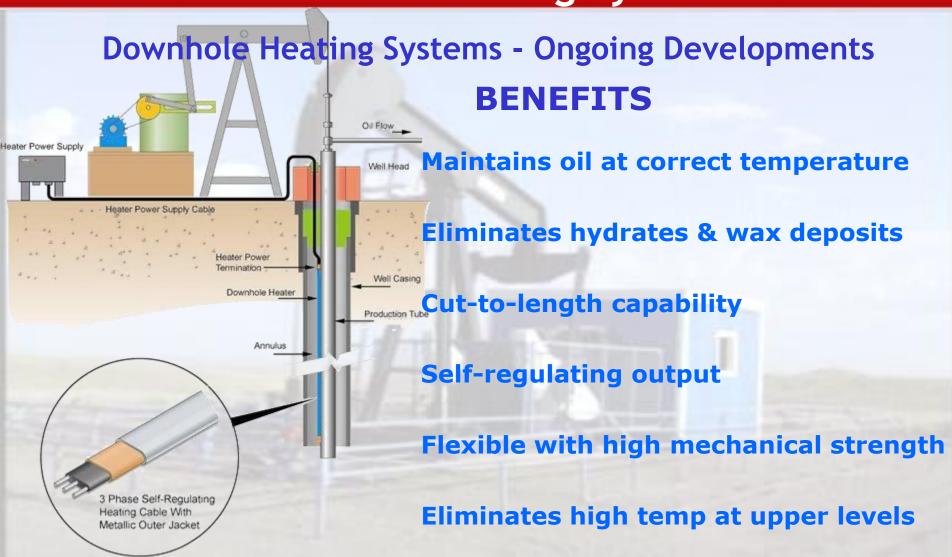
Helicopter Platform Heating

World's 1st Polar Class Deepsea Drill Ship





Downhole Heating Systems





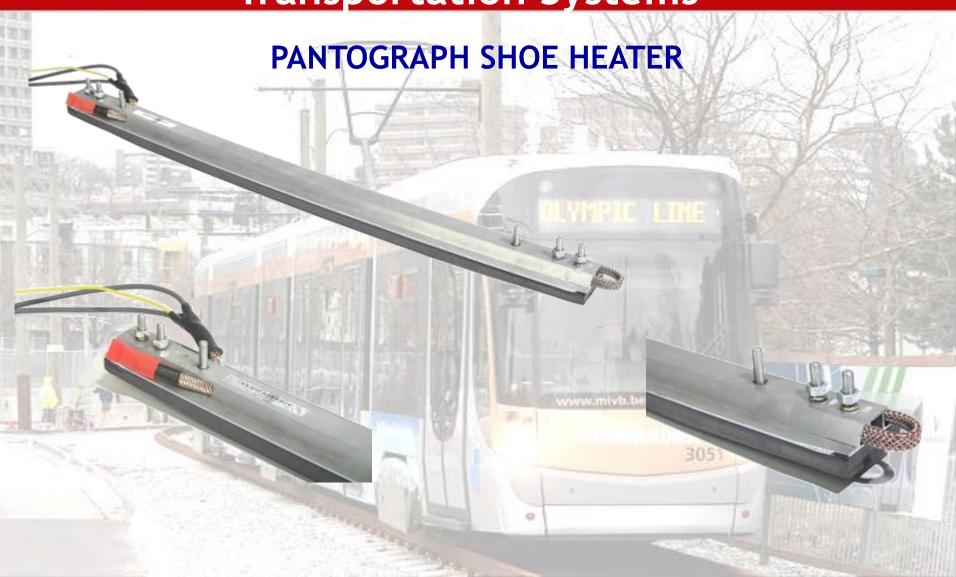
Transportation Systems

Transportation Systems - Ongoing Developments











Transportation Systems

Transportation Systems Ongoing Developments



SELF-REGULATING CATENARY WIRE HEATER





Heat Trace Limited ... continues to be a company ...

- ... Globally recognized as
- ... Setting the Standards & Leading the Way







Neptech Inc. Manufacturers Flexotherm™ Heated Products:

- Heated Sample Lines
- Custom Insulated / Heated Blankets
- Heated Vinyl Blankets
- Heated Transfer and Dispense Hose
- Stack Testing Lines
- 275 / 330 Gallon Tote Blankets

- Heated Multiplexers
- Heated Filter Housings
- Temperature Control Modules
- Dual Rinse Cleaning Carts
- Heated Sample Probes

