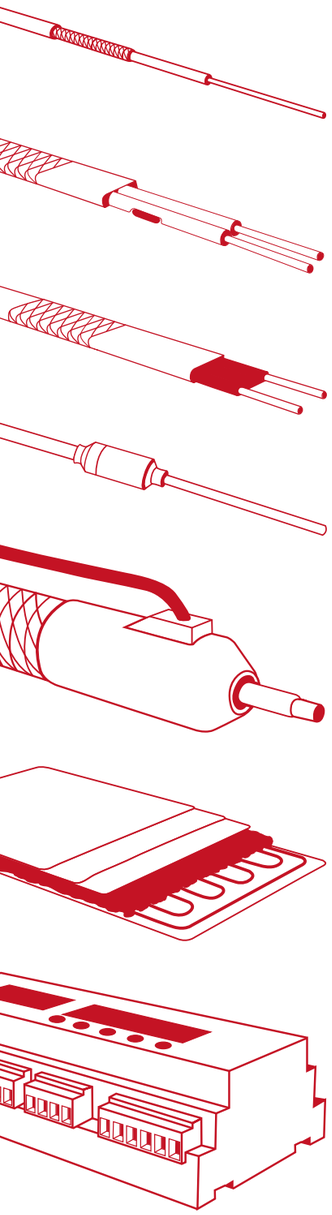
Heated Systems for Loading and Unloading

eltherm®

From A to Z
Your One-Stop-Shop



› Series Resistance Trace Heaters
for freeze prevention and process temperatures in industrial plants and facilities.

› Parallel Resistance Trace Heaters
Parallel trace heaters with constant wattage output and a single end power input.
For applications in hazardous and non-hazardous locations.

› Self-Regulating Trace Heaters
for freeze prevention and temperature maintenance in industry and building & construction.
Applications up to 250 °C.

› Mineral-Insulated Trace Heaters
exclusively manufactured and finished from Alloy 825 or high-quality stainless steel. The unique "Clean Laser Seal" Technology (CLS) guarantees a homogenous, 100% stable system and reliable function up to 700 °C.

› Heated Analytic, Pressure and Loading Systems
for reliable and safe transport of pressurised or non-pressurised fluids and gases without temperature loss, up to 450 °C.

› Heating Mats and Jackets
custom-engineered and tailor-made, for heating valves, pumps, drums, barrels, hobbocks and flange covers, up to 450 °C.

› Power and Control Panels
including temperature sensors, display and operating devices, monitoring and controls plus accessories for reliable, safe functioning and complete control panels.

› Accessories
for safe and effective assembly and operation of complete heat tracing systems in facilities from small to large.

eltherm®

Contents

eltherm in Burbach, Germany

1. Production facility I
2. Administration, application engineering
3. R&D, international sales, eltherm Academy
4. Production facility II

From Process to Product
The eltherm Story

Founded in 1991 in Burbach, Germany, eltherm has developed into a global engineering solution provider with own production facilities and a one-stop-shop for electrical heat tracing products and systems. The company has attained worldwide recognition as a turn-key partner for engineering, design, installation and commissioning of electrical heat tracing for complex industrial plants and facilities.

With its own comprehensive production facilities for all types of heating cables and accessories eltherm has built up the engineering expertise to become one of the leading manufacturers of electrical heat tracing systems in the world.

Besides frost protection and temperature maintenance applications up to 900 °C, eltherm is the competent partner for complete system solutions like heating whole chemical or other industrial plants. eltherm proved its potential and expertise in different industries such as oil and gas, power plant, construction, automotive and food.

› Portfolio Focus
We provide a comprehensive range of electrical heat tracing products, systems and solutions from A to Z. Your One-Stop-Shop.

› Customer Focus
Our focus on the benefits to our clients sets us apart from competitors. We understand and solve our clients' needs with technological passion.

› Technical Focus
We specialise in electrical heat tracing. That is our core competence and inspiration.

› Global Focus
We are a global engineering company with our own production facilities, serving international markets and projects from 13 locations on 5 continents – and with a staff force of 270.

Keeps Gases and Fluids Flowing Safely.

Your Processes in Reliable Hands.

eltherm is a world leader for heated transport systems and sample lines. They ensure safe transport of liquid and gaseous substances without temperature loss.

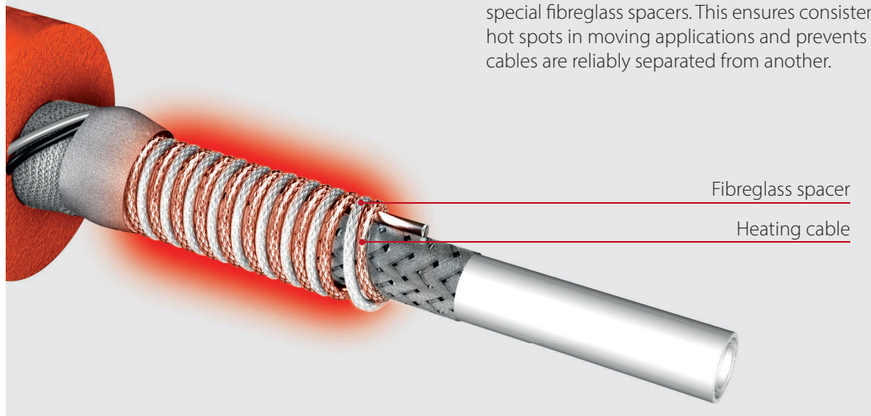
Applications for process and maintain temperatures up to 450°C:

- Gas analytics, where emission samples are transported from chimneys to analytic systems
- Machine and plant engineering
- Chemical and petrochemical industry
- Food production
- Automobile industry, connecting moving machines and robotic systems to one another
- In hazardous (ex) areas

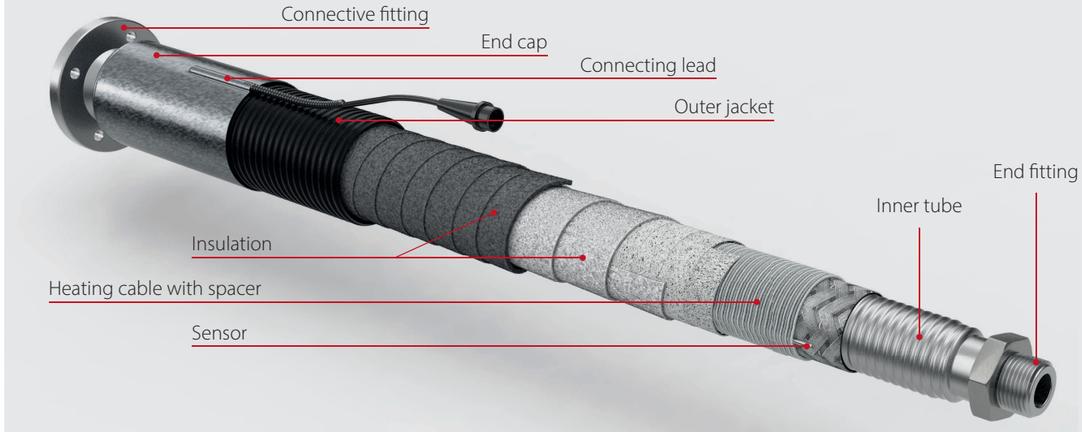
eltherm develops, designs and manufactures heated transport and sample lines to customer specifications. We are you single-source supplier for controlled heated analytic sample lines, heated sample lines with integrated filter, heated pressure lines and a wide range of specific solutions for complex industrial processes.

Consistent Heat Transfer

eltherm standard heated transport lines include heating cables and special fibreglass spacers. This ensures consistent heat transfer, prevents hot spots in moving applications and prevents failure since the heating cables are reliably separated from another.



Typical Design of a Heated Loading System



Type ELH / ELSH md...

Maintain temperatures and enable loading/unloading of oil, fat, resins, paint, bitumen, adhesives, compounds and foods without temperature loss. Our speciality: flexible and robust design for pressures up to 50 bar and temperatures to 250°C. Diameters from 25 to 100mm allow large flow rates. Loading/unloading systems are available with approval for hazardous areas.

Applications

- Chemical industry
- Food production
- Pharmaceutical industry
- PU foaming plants
- Batching and dosing systems
- Surface engineering
- Coating and spraying plants
- Adhesives and casting plants
- Applications in ex areas

Advantages

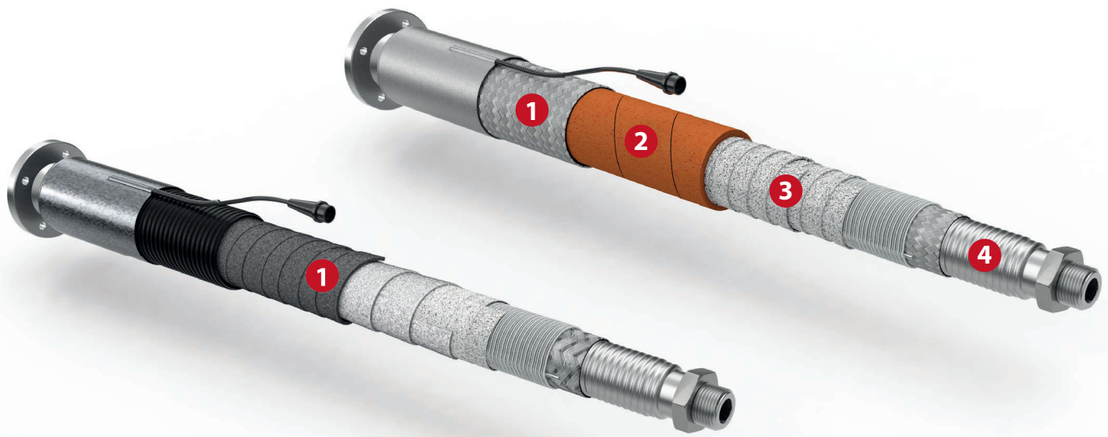
- High performance through close, tight coiling of heating cable with spacer
- Consistent heat transfer
- Longer lifespan and reliable operation
- High quality standard
- Safety against hot spots
- Temperature range: 5°C to 250°C (standard design)
- Diameters: 25 mm to 80 mm (standard design)
- Voltage: 24 V to 500 V
- Operating pressures: up to 50 bar
- Heating performance optimised to application
- Heaters from own production made in Germany

Standard Heated System for Loading and Unloading up to 250°C

Type ELH / ELSH md... Technical Data

Length	depends on application
Process temperature	up to 250°C
Voltage	25 – 500 V
Heater	eltherm resistance heating cable **ELKM-AE / ELKM-AG-N**
Operating pressure	depends on temperature, inner tube, and connecting fitting

Diameters	Performance at 200 °C (standard)	Outer diameter (stainless steel braid)
D 25	300 w/m	75 mm
D 32	360 w/m	85 mm
D 40	400 w/m	90 mm
D 50	480 w/m	100 mm
D 65	580 w/m	130 mm
D 80	650 w/m	145 mm
D 100	on request	on request



Design with series resistance heating cable and non-woven thermo fabric insulation

1 Insulation: multi-layer thermofleece

Design with series resistance heating cable and foam insulation

1 Outer jacket: stainless steel braid
2 Insulation: foam stripes
3 Insulation: non-woven thermo fabric
4 Inner tube: corrugated stainless steel tube

Type ELH / ELSH md... Designs and Options

Outer jacket	❯ PU corrugated tube ❯ TPE corrugated tube ❯ Industrial fabric tube ❯ Stainless steel braid ❯ Galvanized steel braid ❯ Nylon braid (refer to page 16)
Insulation	❯ Multi-layer thermofleece ❯ Thermofleece with foam tube
Inner tube	❯ Corrugated stainless steel tube ❯ PTFE corrugated tube ❯ Universal FEP tube for chemicals ❯ Provided by customer
Connecting fittings	all common fittings
Sensors	❯ PT-100 / 2 wire ❯ PT-100 / 3 wire ❯ PT-100 / 4 wire ❯ PT-1000 ❯ Thermo couples Type Fe Cu-Ni (Type J) and Ni Cr-Ni (Type K)
Endkappen	❯ Shrink end caps ❯ Metal end caps (aluminium / stainless steel) ❯ Silicone end caps
Connecting lead	Standard: 1,5 m in silicone protective tube with multiple pole plug (4 pole + PE / 6 pole + PE) suitable for eltherm eltherm controller
Options	❯ Reinforced connecting lead in PA corrugated tube ❯ Reinforced silicone cable with stainless steel braid jacket ❯ Without multiple pole plug or with plug to customer specifications

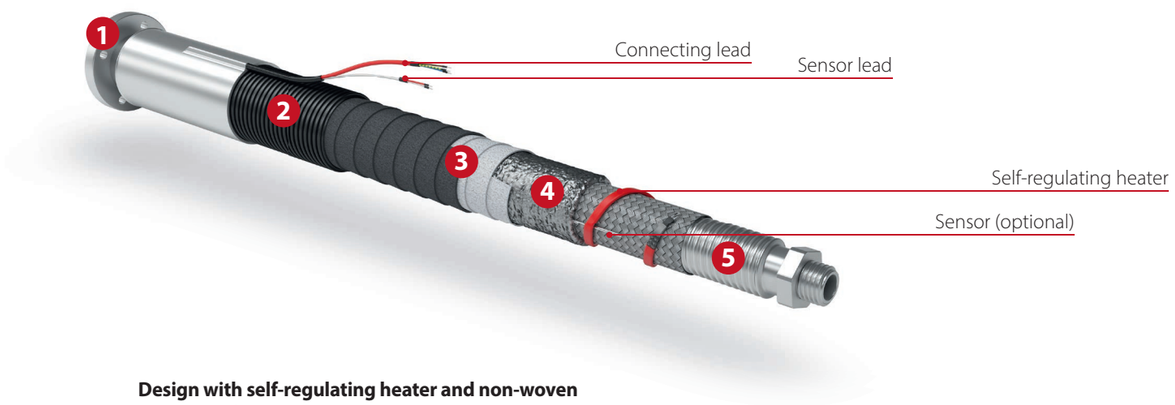
Heated Loading and Unloading System with Self-Regulating Heater

up to 100°C

Type ELH / ELSH mdsb... Technical Data

Length	depends on application
Process temperature	5 to 100°C
Voltage	230 / 120 V
Heater	eltherm self-regulating heaters **ELSR-N / ELSR-H**
Operating pressure	depends on temperature, inner tube, and connecting fitting

Diameters	Performance	Outer diameter (stainless steel braid)
D 25	Specific to application	75 mm
D 32		85 mm
D 40		90 mm
D 50		100 mm
D 65		130 mm
D 80		145 mm
D 100		on request



Design with self-regulating heater and non-woven insulation fabric

1 Connection fitting, e.g. loose flange
2 Outer jacket: PU corrugated tube
3 Insulation: multiple layer thermofleece
4 Aluminium foil
5 Inner tube: corrugated stainless steel tube

Heated system for fixed applications – thus not suited for automatic batching plants, robotic systme or applications with frequently changing bending strain.

Type ELH / ELSH mdsb... Designs and Options

Outer jacket	› PU corrugated tube › TPE corrugated tube › Industrial fabric tube › Stainless steel braid › Galvanized steel braid › Nylon braid (refer to page 16)
Insulation	› Multi-layer non-woven fabric
Inner tube	› Corrugated stainless steel tube › PTFE corrugated tube › Universal FEP tube for chemicals › Provided by customer
Connecting fittings	all common fittings
Sensors	› PT-100 / 2 wire › PT-100 / 3 wire › PT-100 / 4 wire › PT-1000 › Thermo couples Type Fe Cu-Ni (Type J) and Ni Cr-Ni (Type K)
End caps	› Shrink end caps › Metal end caps (aluminium / stainless steel) › Silicone end caps
Connecting lead	1,5 m silicone cable 3 x 1 mm², without plug
Options	› Thicker connecting lead in PA corrucated tube › Silicone cable with VA braid jacket › With plug to customer specifications Also suitable for hazardous areas.

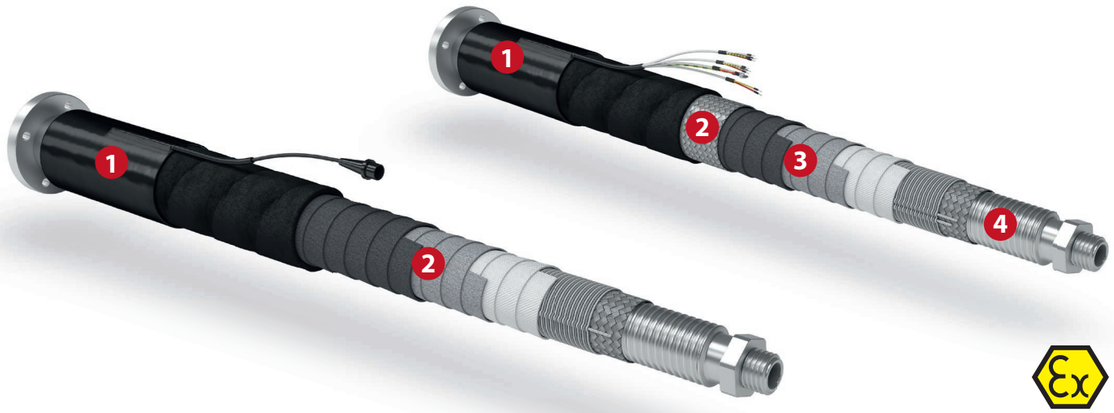
Heated System for Loading and Unloading with Vulcanized Outer Jacket

up to 200°C / 180°C

Type ELH / ELSH mdR... (Ex) Technical Data

Length	depends on application
Process temperature	max. 180°C (T3)
Limiter setting	max. 192°C (T3)
Voltage	24 – 500 V
Heater	eltherm resistance heating cable **ELKM-AE / ELKM-AG-N** eltherm self-regulating heater **ELSR-H**
Operating pressure	depends on temperature, inner tube, and connecting fitting

Diameters	Performance at 200 °C (standard)	Outer diameter
D 25	300 w/m	75 mm
D 32	360 w/m	85 mm
D 40	400 w/m	90 mm
D 50	480 w/m	100 mm
D 65	580 w/m	130 mm
D 80	650 w/m	145 mm
D 100	on request	on request



New: With vulcanized outer jacket and series resistance heating cable

1 Outer jacket: vulcanized EPDM
2 Insulation: multiple layer thermofleece

Heated system for fixed applications, not suitable for automatic batching plants, roboter applications or applications with frequently changing bending strain.

New: with vulcanized antistatic outer jacket

1 Outer jacket: vulcanized, deflective EPDM
2 Protective braid
3 Insulation: thermofleece
4 Inner tube: corrugated stainless steel tube

Classification	II 2G Ex eb IIC T6 - T3 Gb II 2D Ex tb IIIC TX Db
Certificates	› IBExU04ATEX1004X › IBExU13ATEX1124X

Type ELH / ELSH mdR... (Ex) Designs and Options

Outer jacket	› Non Ex: vulcanized EPDM, black, fabric texture › Ex: vulcanized EPDM, electrically deflective
Insulation	› Multiple layer thermofleece
Inner tube	› Corrugated stainless steel tube › PTFE corrugated tube › provided by customer (temperature resistant to min. 160 °C)
Connecting fittings	all common fittings
Sensors	› Non Ex: PT-100 / 2 wire, PT-100 / 3 wire, PT-100 / 4 wire, PT-1000, Thermo couples Type Fe Cu-Ni (Type J) and NiCr- Ni (Type K) › Ex: 2 x Ex- PT-100 / 3 wire / 4 wire; position 1,00 m in front of E connection
End caps	› Shrink end caps › Metal end caps (aluminium / stainless steel) › Silicone end caps
Connecting lead	› Non Ex: 1,5 m in silicone protective tube with multiple pole plug (4 pole + PE / 6 pole + PE) suitable for eltherm controller › Ex: Standard 1,5 m PTFE insulated

The Vulcanized Outer Jacket

This newly developed outer jacket design for heated systems is particularly resistant to abrasion, chemically stable and easy to clean. In the electrically deflective design it is also suitable for use in hazardous areas.

Benefits
› high chemical stability
› resistant to abrasion
› flexibility
› insulation variable and can be optimised depending on application
› smooth, easy-to-clean surface

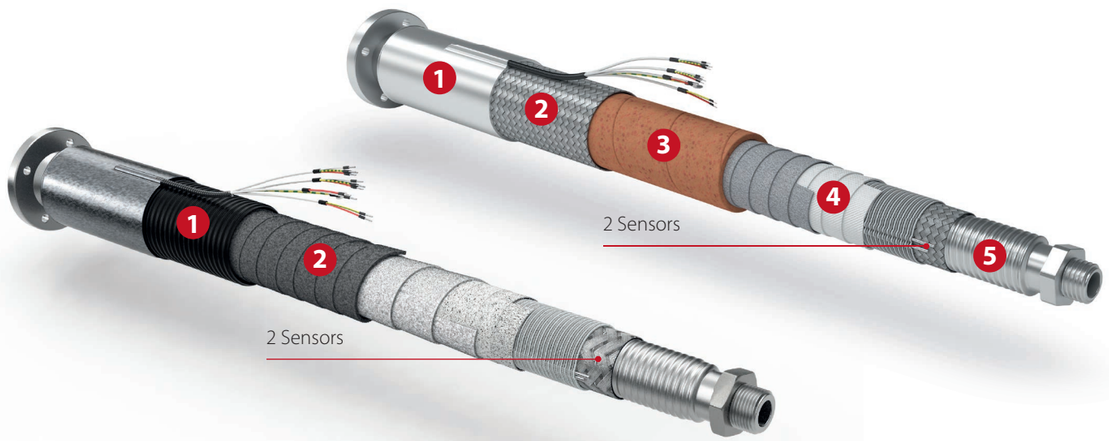
Heated System for Loading and Unloading in Hazardous Areas

up to 180°C

Type ELH / ELSH md..w..SS..FE-EX **Technical Data**

Length	depending on application
Process temperature	180°C (T3)
Limiter setting	192°C (T3)
Voltage	24 – 500 V
Heater	eltherm resistance heating cable **ELKM-AE / ELKM-AG-N** eltherm self-regulating heater **ELSR-H**
Operating pressure	depends on temperature, inner tube, and connecting fitting

Diameters	Performance at 200 °C (standard)	Outer diameter
D 25	300 w/m	75 mm
D 32	360 w/m	85 mm
D 40	400 w/m	90 mm
D 50	480 w/m	100 mm
D 65	580 w/m	130 mm
D 80	650 w/m	145 mm
D 100	on request	on request



Design with thermofleece insulation

1 Insulation: thermofleece
2 Outer jacket: PU corrugated tube

Design with foam insulation

1 Connecting lead: PTFE insulated
2 Outer jacket: stainless steel braid or galvanized braid
3 Insulation: foam stripes
4 Insulation: multiple layer thermofleece
5 Inner tube: corrugated stainless steel tube (refer to p.17)

Classification	II 2G Ex eb IIC T6 - T3 Gb II 2D Ex tb IIIC TX Db	**Certification**	› IBExU04ATEX1004X › IBExU13ATEX1124X

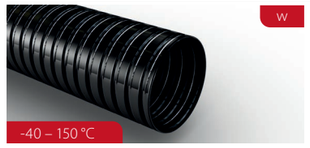
Type ELH / ELSH md..w..SS..FE-EX **Designs and Options**

Outer jacket	› Stainless steel braid › Galvanized iron braid › Antistatic PU corrugated tube (refer to page 16)
Insulation	› Multiple layer thermofleece › Thermofleece with foam tube
Inner tube	› Corrugated stainless steel tube › PTFE corrugated tube › Universal FEP tube for chemicals › Provided by customer (temperature resistance min. 160°C)
Connecting fittings	all common fittings
Sensors	2x EX- PT-100 / 3 wire / 4 wire, position 1,00 m in front of E connection
End caps	› Shrink end cap › Metal end cap (aluminium / stainless steel) › Silicon end caps
Connecting lead	Standard 1,50 m PTFE insulated

Designs and Options
Heated Loading/Unloading Systems

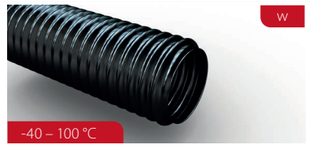
Outer Jackets

Insulation with thermofleece



TPE corrugated tube

Flexible, light-weight corrugated tube coated with TPE/TPK and scoring protection on the wire spiral.

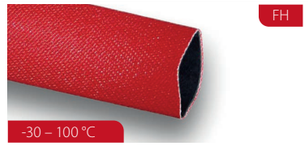


PU Ccorrugated tube

Flexible, light corrugated tube made of polyurethane, reinforced with spring steel spiral.

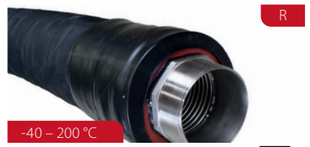
PU corrugated tube, deflective

Flexible, corrugated tube made of electrically deflective polyurethane, reinforced with spring steel spiral. For use in hazardous areas.



Industrial fabric tube, red or white

Robust and light. Mechanically resistant to abrasion. Limited dynamic capacity.



Vulcanized EPDM

Particularly resistant to abrasion, chemically very stable and very easy to clean. Suitable for use in hazardous areas in its deflective version.

Foam Insulation

Nylon braid / polyamide braid

Flexible for tight bending radii. Available up to diameter 50.

Stainless steel braid (Mat. 14301)

Highly corrosion resistant, available to diameter 100. Approved for hazardous areas.

Galvanized iron braid

Available up to diameter 65. Approved for hazardous areas.

Inner Tubes

FEP- or PTFE universal tube for chemicals

Inner tube made of transparent, seamlessly extruded FEP or PTFE, electrically conductive. Reinforcement with woven fabric inlays and galvanized steel wire helix.

Applications:
For loading/unloading processes at up to 100 °C. In the chemical, petrochemical, cosmetics and pharmaceutical industries.

Benefits:
- Chemixal stability
- Can be steam cleaned up to 30 min / 150 °C
- Fulfills DIN EN 12115
- Fulfills TRbF 131.2
- Inner tube conductive
- FDA conformity
- Suitable for drinking water (KTW recommendation)
- Improved diffusion resistance
- Smooth surface with low friction coefficient
- Fittings attached via hose clamp or stainless steel press sheath

PTFE corrugated tube

With reinforcement layer. Designs with, for example
- Vacuum supporting spiral
- Fibreglass reinforcement
- Black PTFE, antistatic
- Smooth tube (smooth inside, corrugated on the outside)

Applications:
In petrochemical, pharmaceutical, chemical and cosmetics fields. The basic material is FDA approved. For batching, dosing, filling and sealing processes.

Benefits:
- Chemical stability
- Suited for suction and vaccuum applications with pressure clamps
- High flexibility
- Inner tube conductive
- FDA conformity
- Smooth surface with low friction coefficient
- Suited for robotic systems with fibreglass reinforcement
- Optimised for frequently changing bending strain

Corrugated stainless steel tube

With stainless steel wire-reinforced inlay

Applications:
In the chemical, petrochemical and bitumen industries, machine and plant engineering.

Benefits:
- Universally suited for fluids and gases
- Diffusion resistant
- For temperatures above 250 °C
- Highly flexible due to bend profile

Other materials and designs are available on request

Not suited for use with roboters or frequently changing bend strain.

Designs and Options
Heated Loading/Unloading Systems

Fittings

Flange fitting (loose, fixed or threaded)

Designs
According to DIN 2501,
According to EN 1092-1
Pressure levels: PN6-PN40 according to ANSI150 lbs or 300 lbs

Material:
Stainless steel 1.4571 or 1.4404.
On request: galvanized steel

Sizes:
D 25 - D 100

Tri-Clamp

Designs:
According to DIN 32676
Outer diameter Tri- Clamp
50,5 - 119 mm

Material:
Stainless steel
1.4571 oder 1.4404

Sizes:
D 25 - D 100

Outer side thread

Designs:
Flat sealing with cylindrical thread in inches according to ISO 228-1
Screw sealing with conical thread according to the DIN EN 10226 ISO 7-1 standard.

Material:
Stainless steel 1.4571 or 1.4404.
On request: galvanized steel

Sizes:
G-1" - G3"
R 1" - R4"

Fittings

Tanker couplings

Designs:
Tanker coupling (male/female) according to the EN 14420-6 / DIN 28450 standard.

Material:
Stainless steel 1.4404, brass.
Hypalon, PTFE, NBR sealing rings

Sizes:
D 25 - D 100
Rd 52x 1/6" - Rd 130x 1/4"

Kamlock coupling

Designs:
Male or female

Material:
Stainless steel 1.4404 , Aluminium
BUNA N, PTFE, NBR, Silicone or EPDM sealing rings

Sizes:
1" – 4"

Fittings for the food industry

Designs:
Cone socket with cap nut or threaded socket SC according to DIN 11851 / DIN 405-1

Material:
Stainless steel 1.4404 / cap nut made of 1.4301
HYPALON or PTFE sealing rings

Sizes:
D 25 - D 100
Rd 52 x 1/6" – Rd 130 x 1/4"

Other fittings or materials on request.

Controllers

Temperature Controllers (from eltherm Product Portfolio)

Electronic Temperature Controller

ELTC/H-14

Electronic temperature controller with digital display, wall mounted. The temperature is measured by a Pt100 sensor, processed by the microcontroller and displayed. After comparing actual and preset values, the output relays are switched. The controller is equipped with a socket. The unit is supplied in a weather proof plastic enclosure and a transparent cover.

Benefits:
- LED display works to -25 °C
- Programmable 0 °C to +390 °C
- 20 A resistive load with hybrid relay
- Signaling contact (can be set as alarm or release contact)
- Suitable for Pt100 with 2 or 3 wires
- Operating voltage: 90 - 260 VAC / 50/60 Hz

ELTC-21 / ELTC-22

Electronic temperature controller with digital display for top-hat rail mounting. The temperature is measured by a Pt100 sensor, processed by the microcontroller and displayed. After comparing actual and preset values, the appropriate output relays are switched.

Benefits:
- LED display works to –25 °C
- Programmable -50 °C - +400 °C
- 16 A resistive load alarm contact
- Pt100 with 2 or 3 wires

For additional controllers refer to the brochure Temperature Control and Monitoring.

In Practice

Application Examples

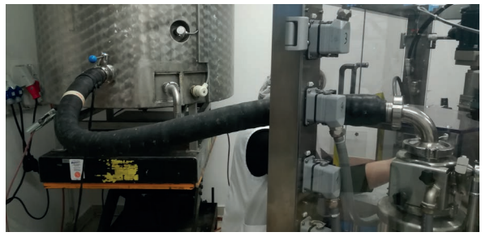
ELSH/mdw up to 200°C, D 80

Application:
Loading adhesives in the chemical industry

Inner tube:
Provided by the customer

Maintain temperature:
120 – 150°C

Outer jacket:
TPE corrugated tube



ELH/mdR up to 100°C, D40

Application:
Transport of fats and oil from a heated vessel to a dosing unit in the cosmetics industry

Inner tube:
Special PTFE corrugated tube

Maintain temperature:
80 – 100°C

Outer jacket:
vulcanized EPDM

In Practice
Customized Solutions

Type ELH/mdw to 200°C

Heated system for loading and unloading D 80

Inner tube: corrugated stainless steel
Maintain temperature: 150°C - 200°C
Outer jacket: Corr. TPE tube
Application: Bitumen transport

Type ELH/mdw to 200°C

Heated system for loading and unloading D 50 with two-part loose flange

Inner tube: corrugated stainless steel
Maintain temperature: 180°C - 200°C
Outer jacket: Corr. TPE tube
Application: Bitumen dispensing

Type ELH/mdw to 200°C

Heated system for loading and unloading D 50

Inner tube: corrugated stainless steel
Maintain temperature: 200°C
Outer jacket: stainless steel braid
Application: chemical industry

Type ELH/mdsbw to 80°C

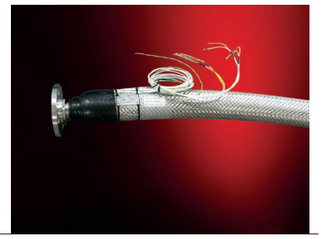
Heated system for loading and unloading D 50

Inner tube: special corrugated antistatic PTFE tube, fittings lined with PTFE
Maintain temperature: 80°C
Outer jacket: corrugated PU tube, electrically deflective
Application: chemical industry, transport of phenolic resin in hazardous areas

Type ELH/mdsbw to 30°C

Heated system for loading and unloading D 50 with built-on Ex termination box

Inner tube: corrugated stainless steel tube
Maintain temperature: freeze protection to 30°C
Outer jacket: corrugated PU tube, electrically deflective
Application: petrochemical industry, hazardous areas



Type ELH/mdw to 100°C

Heated system for loading and unloading D 50

Inner tube: corrugated PTFE tube
Maintain temperature: 50°C
Outer jacket: stainless steel braid
Application: Chemical industry, hazardous areas

eltherm®

Heated System Questionnaire

Company: _____ Contact: _____

Street: _____ Code/city: _____

Tel.: _____ E-mail: _____

Hazardous Areas

☐ yes ☐ no ATEX Zone: Temperature class:

Number: _____

Inner tube D: _____ mm

Material inner tube or pipe

☐ Corrugated PTFE ☐ Corrugated stainless steel ☐ Universal FFP tube for chemicals

☐ Provided by customer, type: Outer diameter: ☐ Special:

Length: _____ mm

Operating temperature: _____ °C

Maintain temperature: _____ °C

Voltage: _____ V

Ambient temperature

☐ Standard (-20 °C) ☐ Special °C

Operating pressure

bar, at °C

Negative pressure

bar, at °C

Substance: _____

Application

Moving ☐ yes ☐ no ☐ outside ☐ inside

Outer jacket

☐ corrugated TPE tube ☐ corrugated PU tube ☐ industrial fabric tube ☐ vulcanized EPDM ☐ braid, galvanized ☐ stainless steel braid ☐ special

Sensors Number:

☐ PT-100 / 2 wire ☐ Ex-protected PT-100 / 3 wire ☐ Thermocouple Type NiCr-Ni ☐ Special:

☐ PT-100 / 3 wire ☐ Ex-protectedPT-100 / 4 wire ☐ Thermocouple Type FeCu-Ni

Sensor position: ☐ Standard (500 mm from E connection) ☐ Special: mm from E connection

Fittings (refer to p. 40-43)

E connection (Type) End termination

Material: ☐ machining steel ☐ stainless steel(1.4571/1.4404) ☐ Special:

Connecting lead exit

☐ to the back (on tube side) ☐ front

Controllers

☐ provided by customer ☐ with ELTC-14

☐ fixed, with ELTC-21 ☐ with ELTC-22

Connecting line length: _____ mm

Connecting plug

☐ without ☐ with plug type:

Comments: _____

80.000 km

of trace heaters spanning twice the circumference of the globe in the course of a decade are used in a wide range of industries.

500 bar

and process temperatures up to 450 °C is what eltherm's heated pressure hose systems are built for in industrial applications.

5 Continents
13 Locations

300 Staff Members

work for eltherm all over the world. And for you and your heat tracing challenges.

2.777 Football Fields

is the ground space covered by the solar power plant NOOR in Morocco. Electrical heat tracing performs vital functions there.

Eight Engineering Hubs

provide engineering solutions for turnkey projects and EPC requirements all over the world.

Twenty-three Nations

The eltherm team is multinational. We are natives of a total of 23 nationalities.

550 °C

Molten salts must be kept at this temperature to keep them flowable. They store the sun's energy in concentrated solar power plants.

eltherm®

project ecology

A contribution to sustainability and climate protection: The eltherm fleet operation was rated carbon-neutral in 2018. To achieve this objective, 143 t CO_2 emissions were compensated by supporting global climate protection projects.

At Your Service
eltherm globally

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Burlington/Canada	canada@eltherm.com
Calgary/Canada	canada@eltherm.com
Johannesburg/South Africa	southafrica@eltherm.com
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