

Electrical heating tape for frost protection or temperature maintenance of pipework and vessels in hazardous area.

Self-Limiting Heating Tape Ex



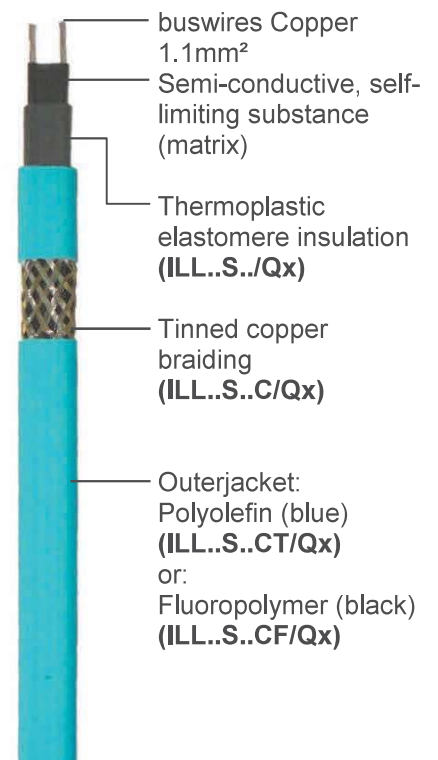
- Can be cut to length with minimal wastage
- Broad variety of termination sets, controllers and accessories available
- Will not overheat, even when overlapped
- Ideal for battery powered applications
- For 24V AC/DC (12V upon request)
- Automatically adjusts power output in response to pipe/ worpiece temperature

Description

Quintherm ILL..S.. is a light industrial/commercial grade self-regulating heating tape that can be used for freeze protection or temperature maintenance of pipework and vessels in the construction and refrigeration industries. It can be cut-to-length at site and exact piping lengths can be matched without any complicated design considerations.

Its self-regulating characteristics improve safety and reliability. ILL..S.. will not overheat or burnout, even when overlapped upon itself. Its power output is self-regulated in response to the pipe temperature.

The installation of Quintherm ILL..S.. is quick and simple and requires no special skills or tools. Termination, splicing and power connection components are all provided in convenient kits.



Options

- ILL..S../Qx** Basic heating tape without copper braiding and without outerjacket (only for non-Ex applications) *(no stock, only available upon request)*
- ILL..S..C/Qx** Tinned copper braid provides effective grounding (where not already provided by e.g. pipework).
- ILL..S..CT/Qx** Standard heating cable with tinned copper braid and polyolefin outerjacket for enhanced mechanical and chemical protection.
- ILL..S..CF/Qx** Standard heating cable with tinned copper braid and fluoropolymer outerjacket to withstand corrosive chemicals or vapours.

Technical Data

| | |
|--------------------------------------|-----------------------------|
| Max. Permitted Temperature: | |
| Power On: | 85°C |
| Power Off: | 85°C |
| Min. Installation Temperature: | -40°C |
| Power Supply: | 22-24V (11-12V) AC/DC |
| Max. Resistance of Protective Braid: | 18,2 Ohm/km |
| Temperature Class: | T6 12W/m, T4 30W/m |

Weights and Dimensions:

| Type | Dimensions Nominal (mm) | Weight Kg/100m | Min. Bending Radius (mm) | Gland Size |
|------------|-------------------------|----------------|--------------------------|------------|
| ILL..S.. | 10.8 x 3.8 | 4.8 | 25 | M20 |
| ILL..S..C | 11.8 x 4.8 | 9.5 | 30 | M20 |
| ILL..S..CT | 13 x 6 | 11.8 | 35 | M20 |
| ILL..S..CF | 12.7 x 5.7 | 12.6 | 35 | M20 |

Approval

ATEX, IECEx, EAC

Ordering Information

Example:

| | |
|---------------------------------------|-----------------------|
| | ILL 17 S24 C T |
| Quintherm ILL | ILL |
| Nominal Output 17W/m | 17 |
| Supply Voltage 24V AC/DC (S24) | S24 |
| Supply Voltage 12V AC/DC (S12) | S12 |
| Tinned Copper Braid (C) | C |
| Polyolefin Outerjacket (T) (blue) | T |
| Fluoropolymer Outerjacket (F) (black) | F |

Max. Length (m) vs. Circuit Breaker Size

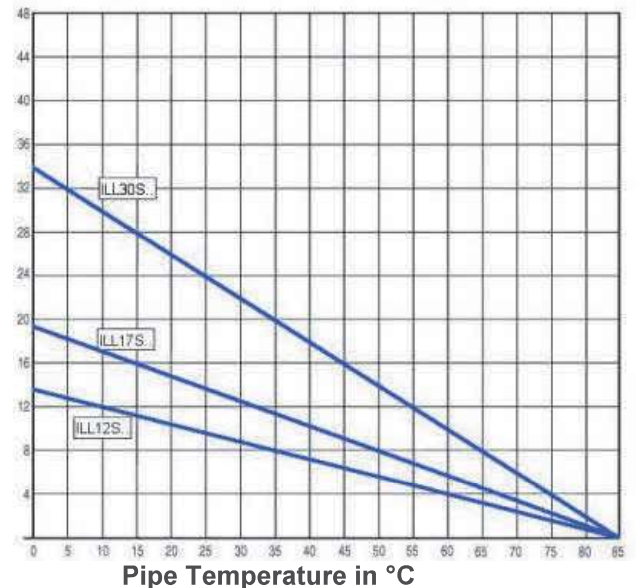
| Type | Start Temp. | 6A | 10A | 16A | 20A |
|-------------|-------------|----|-----|-----|-----|
| ILL12S24.. | 5°C | 8 | 14 | 18 | - |
| | 0°C | 8 | 12 | 18 | |
| | -20°C | 6 | 12 | 16 | |
| | -40°C | 6 | 10 | 14 | |
| ILL17S24.. | 5°C | 6 | 8 | 14 | 16 |
| | 0°C | 4 | 8 | 12 | 14 |
| | -20°C | 4 | 6 | 10 | 14 |
| | -40°C | 4 | 6 | 10 | 12 |
| ILL30S24... | 5°C | 4 | 6 | 1 | 12 |
| | 0°C | 4 | 6 | 8 | 10 |
| | -20°C | 2 | 4 | 8 | 10 |
| | -40°C | 2 | 4 | 6 | 8 |

For use with Type C circuit breakers to EN60898

Thermal Ratings

Nominal output at 12V or 24V when the heating tape is installed on insulated metal pipes.

W/m



Accessories

Quintex offers a complete range of accessories including termination/splice kits, end seals, junction boxes and controls. Such items carry separate approvals from the heating tapes. When used in hazardous areas, only use approved components.

Further Information

Please consult the installation instructions.