

Electrical heating tape for frost protection or temperature maintenance of instrument lines, pipework or vessels in safe or hazardous area environments

**Self-Regulating Heating Tape**

**250°C**



- Automatically adjusts heat output in response to heated surface temperature.
- Can be cut-to-length with minimal wastage.
- Suitable for high process temperature maintenance applications up to +220°C.
- Full range of terminations, controls, accessories and approvals available.
- Will not overheat, even when overlapped.
- Available for 220...277V AC. (110V...120V AC upon request)

## Description

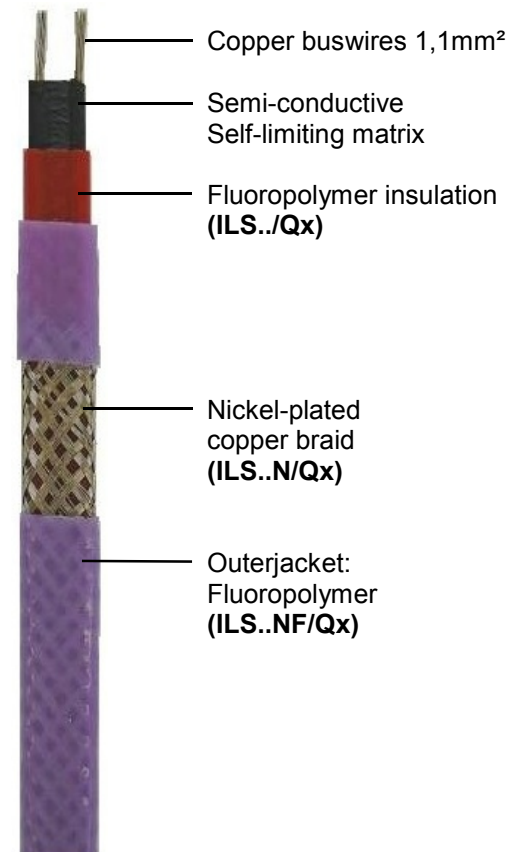
Quintherm ILS is a super high temperature industrial/commercial grade self-regulating heating tape that can be used for super high process temperature of pipework or vessels in the pharmaceutical & chemical or construction industries up to 250°C (switched off) likely to be subject to steam cleaning.

It can be cut-to-length on site to match exact pipe lengths without any complicated design considerations.

ILS is approved for use in non-hazardous, hazardous or corrosive environments to world-wide standards.

Its self-regulating characteristics improve safety and reliability. ILS will not overheat or burnout, even if overlapped upon itself. Its power output is automatically self-regulated in response to pipe or heating surface temperature. This ensures safety and reliability.

Installation of ILS is quick and easy, requiring no special tools or skills. Terminations, in-line splicing and power connection components are all available in convenient kits.



## Available Options

- ILS../Qx** Base heating tape without any braiding or outerjacket (for non-Ex applications only) *(available upon special request)*
- ILS..N/Qx** Base heating tape with nickel-plated copper braid providing mechanical protection or where traced equipment does not provide an effective earth path, e.g. plastic or non-metallic pipework or surfaces. *(available upon special request)*
- ILS..NF/Qx** Base heating tape with nickel-plated copper braid and fluoropolymer outerjacket for added mechanical and aggressive chemical protection.

## Technical Data

Max. Allowed Exposure Temperature:  
 Power ON: 220°C  
 Power OFF: 250°C

Min. Installation Temperature: -40°C

Min. Operating Temperature: -65°C

Power Supply: 220-277VAC

Max. Resistance of Protective Braiding:  $\leq 18,2 \Omega/\text{km}$

Temperature Class: T3 = up to & incl. ILS60...  
 T2 = ILS75..., ILS90..., ILSw120...

## Weights and Dimensions:

Type	Dimensions Nominal (mm)	Weight kg/100 m	Min. Bending Radius (mm)	Gland Size
ILS..	10,2 x 3,5	7,6	20	M20
ILS..N	11,2 x 4,5	11,3	30	M20
ILS..NF	12,1 x 5,4	14,6	35	M20
ILSw..	12,5 x 3,7	11,4	25	M25
ILSw..N	13,5 x 4,7	15,8	30	M25
ILSw..NF	14,4 x 5,6	19,5	35	M25

## Approvals



## Ordering Information

Example: ILS 30 2 N F/Qx

Quintherm Tape Family (ILS)

Nominal Output 30W/m at 10°C (30)

Supply Voltage 220-277V AC (2)  
 Supply Voltage 110-120V AC (1)

Nickel-plated Copper Braid (N)

Fluoropolymer Outerjacket (F)

## Further Information

Please consult the installation instructions.



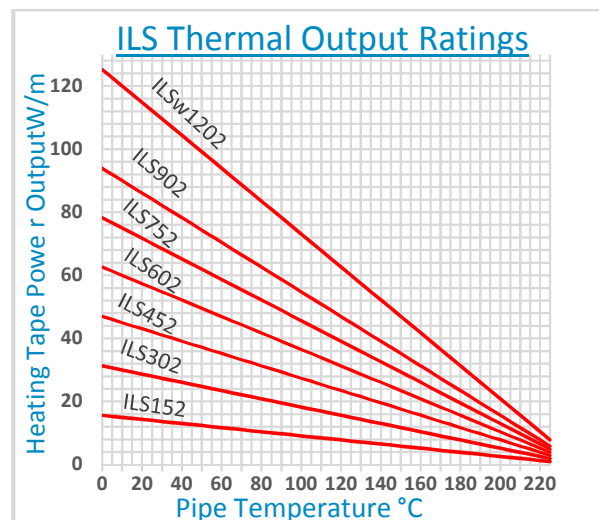
## Max. Cct Length (m) vs. MCB Size (A)

Typ	Start Temp.	230V AC			
		10A	16A	20A	25A
ILS152..	+10°C	78	126	154	154
	0°C	76	120	150	152
	-20°C	68	108	136	150
	-40°C	52	82	102	126
ILS302..	+10°C	52	82	102	108
	0°C	48	78	96	106
	-20°C	44	70	88	98
	-40°C	30	50	62	78
ILS452..	+10°C	38	62	78	88
	0°C	36	60	74	84
	-20°C	34	52	66	82
	-40°C	24	40	50	64
ILS602..	+10°C	30	50	62	76
	0°C	30	46	58	72
	-20°C	26	42	52	66
	-40°C	22	36	46	52
ILS752..	+10°C	26	42	52	64
	0°C	24	40	48	60
	-20°C	22	36	44	54
	-40°C	16	26	32	42
ILS902..	+10°C	22	34	42	54
	0°C	20	32	40	50
	-20°C	18	30	36	46
	-40°C	14	24	30	38
ILSw1202..	+10°C	14	24	30	38
	0°C	12	18	24	30
	-20°C	8	14	16	20
	-40°C	6	12	14	20

For use with Type „C“ MCB in accordance with EN60898-2:2006

## Thermal Ratings

Nominal Power Output at 230V when ILS is installed on thermally insulated carbon steel pipes.



## Accessories

A full range of accessories are available to compliment our heating tapes, such as terminations, end seals, junction boxes and thermostats. Most items carry separate approvals where required for use in hazardous areas.