

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

85°C



- Automatically adjusts heat output in response to heated surface temperature.
- Can be cut-to-length with minimal wastage.
- Suitable for light industrial and commercial applications up to +85°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

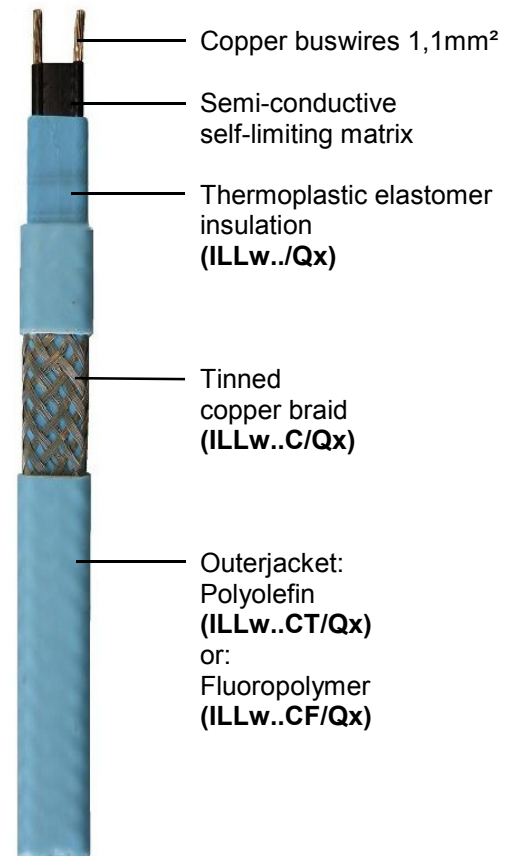
Quintherm ILLw is a light industrial/commercial grade self-regulating heating tape that can be used for freeze protection or temperature maintenance of pipework or vessels in the construction and refrigeration industries up to and including 85°C which are not subject to steam cleaning.

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

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

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

Installation of Quintherm ILLw 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

- ILLw../Qx** Base heating tape without any braiding or outerjacket. (only for non-Ex applications)
- ILLw..C/Qx** Base heating tape with tinned 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.
- ILLw..CT/Qx** Base heating tape with tinned copper braid and thermoplastic outerjacket for added mechanical and light chemical protection.
- ILLw..CF/Qx** Base heating tape with tinned copper braid and fluoropolymer outerjacket for added mechanical and aggressive chemical protection.

Technical Data

Max. Allowed Exposure Temperature:
 Power On: 85°C
 Power Off: 85°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.: T6 = up to and incl. ILL31w...
 T4 = ILLw40...

Weights and Dimensions:

Type	Dimensions Nominal (mm)	Weight kg/100 m	Min. Bending Radius (mm)	Gland Size
ILLw..	10,75 x 3,75	5,6	25	M20
ILLw..C	11,75 x 4,75	9,5	30	M20
ILLw..CT	12,95 x 5,95	11,8	35	M20
ILLw..CF	12,95 x 5,95	12,6	35	M20

Approvals



Ordering Information

Example: ILLw 40 2 C F/Qx

Quintherm Tape Family (ILLw)

Nominal Output 40W/m at 10°C

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

Tinned Copper Braid (C)

Polyolefin Outer Jacket (T)
 Fluoropolymer Outer Jacket (F)

Further Information

Please consult the installation instructions.



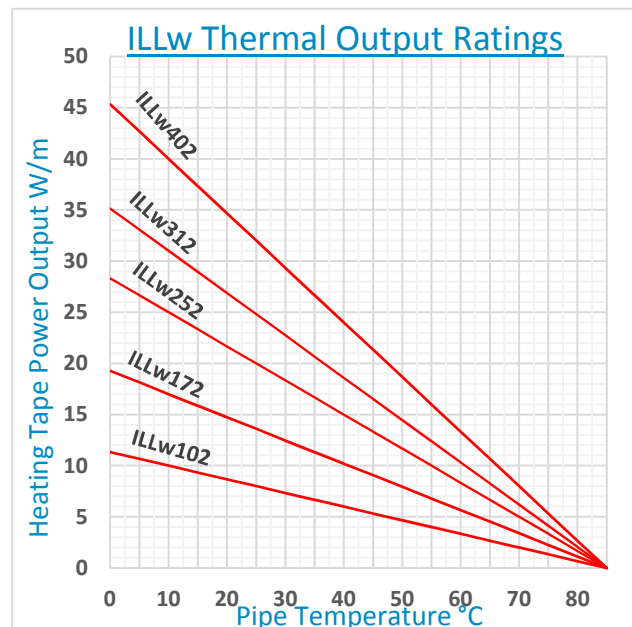
Max. Cct Length (m) vs. MCB Size (A)

Type	Start Temp.	230V AC			
		10A	16A	20A	25A
ILLw102..	+10°C	152	198		
	0°C	122	196	198	
	-20°C	84	136	170	198
	-40°C	74	118	148	184
ILLw172..	+10°C	102	154		
	0°C	82	130	154	
	-20°C	66	106	132	154
	-40°C	50	80	100	124
ILLw252..	+10°C	76	122	124	
	0°C	62	98	122	124
	-20°C	34	56	70	88
	-40°C	32	50	64	80
ILLw312..	+10°C	46	74	92	110
	0°C	34	54	66	84
	-20°C	26	40	50	64
	-40°C	24	38	48	60
ILLw402..	+10°C	34	56	70	88
	0°C	24	40	50	62
	-20°C	20	30	38	48
	-40°C	18	30	36	46

For use with Type "C" CB in accordance with EN60898-2:2006

Thermal Ratings

Nominal Power Output at 230V AC, when ILLw 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.