

ILLw.../Qx

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

Self-Regulating Heating Tape Ex

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

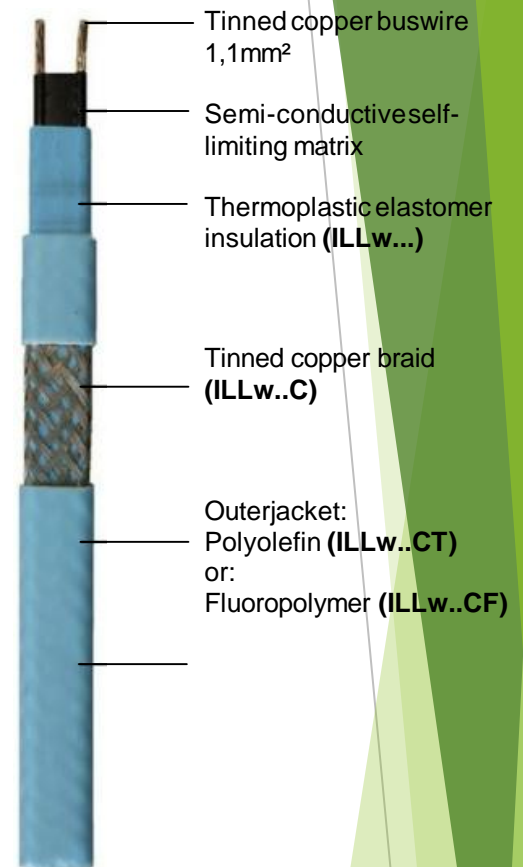
ILLw is a light industrial/commercial grade self-regulating heating tape that can be used for freeze protection or temperature maintenance of pipework or vessels in the construction and refrigeration industries up to and including 85°C which are not subject to steam cleaning.

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 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.



Options

- | | |
|-----------------|---|
| ILLw... | Base heating tape without any braiding or outerjacket. (only for non-Ex applications)
<i>(available upon special request)</i> |
| ILLw..C | 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. <i>(available upon special request)</i> |
| ILLw..CT | Base heating tape with tinned copper braid and thermoplastic outerjacket for added mechanical and light chemical protection. |
| ILLw..CF | Base heating tape with tinned copper braid and fluoropolymer outerjacket for added mechanical and aggressive chemical protection. |

Technical Data

Max. Exposure Temperature:	
Power On:	85°C
Power Off:	85°C
Min. Installation Temperature:	-40°C
Min. Operating Temperature:	-65°C
Power Supply:	
	220-277VAC
Cross-Section:	1.1mm ²
Max. Resistance of Protective Braiding:	≤ 18.2 Ω/km
Temperature Class:	T6 up to ILLw31... T4 from ILLw40...

Weights and Dimensions:

Typ	Dimensions Nominal (mm)	Weight kg/100m	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

Approval

ATEX, IECEx, EAC

Ordering information

Example:	ILLw 40 2 C F
(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 outerjacket (T)	
Fluoropolymer outerjacket (F)	

Further Information

Please consult the installation instructions.

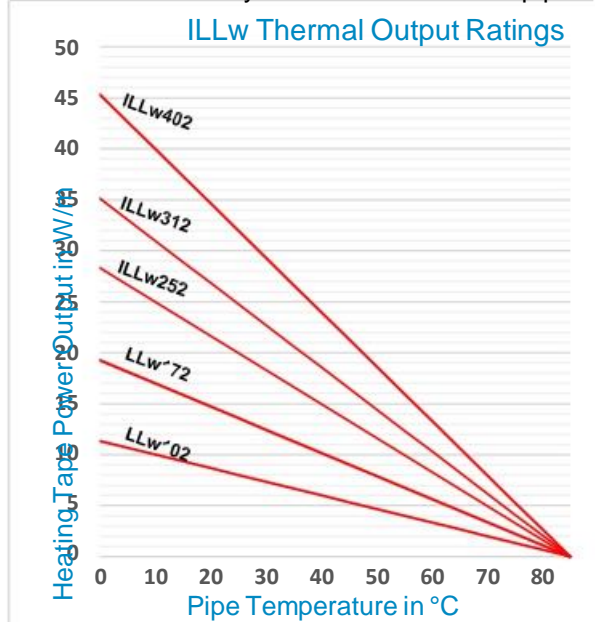
Max. Cct Length (m) vs. MCB Size (A)

Type	Start Temp.	230V AC			
		10A	16A	20A	25A
ILLw102..	+10°C	136	198	198	198
	0°C	122	188	188	188
	-20°C	108	174	176	176
	-40°C	96	154	166	166
ILLw172..	+10°C	92	148	152	152
	0°C	84	134	144	144
	-20°C	74	118	136	136
	-40°C	66	106	128	128
ILLw252..	+10°C	74	118	124	124
	0°C	68	108	120	120
	-20°C	60	94	112	112
	-40°C	52	84	106	106
ILLw312..	+10°C	58	92	112	112
	0°C	52	84	104	104
	-20°C	46	74	92	92
	-40°C	42	66	82	82
ILLw402..	+10°C	46	74	92	92
	0°C	42	66	84	84
	-20°C	36	58	74	74
	-40°C	32	52	66	66

For use with type "C" MCB 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 our complement heating tapes, such as end seals, terminations, junction boxes and thermostats. Most items carry separate approvals where required for use in hazardous areas.