

# ILL..S..(CT/CF)


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

Erfahrung ist Zukunft



## Self-Regulating Heating Tape

85°C

- Automatically adjusts heat output in response to inc. or dec. pipe temperature
- Will not overheat or burnout, even when overlapped
- Can be cut to length with no wastage.
- Ideal for applications with battery-power
- For **24V AC/DC** (12V on demand)
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### Description

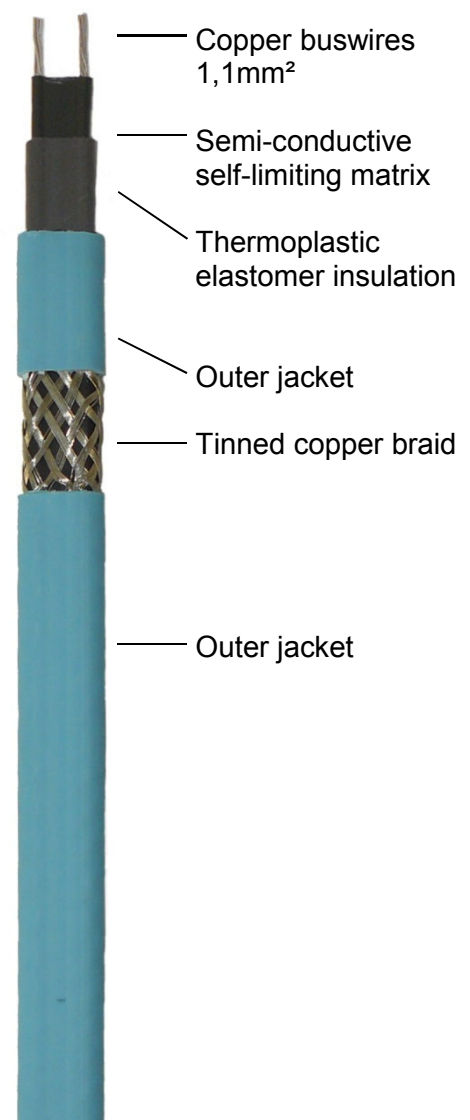
Quintherm ILL..S.. is a light industrial/commercial grade self-regulating heating tape that can be used for freeze protection or temperature maintenance of pipework and vessels in the construction and refrigeration industries. It can be cut-to-length at site and exact piping lengths can be matched without 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.. Basic heating tape without braiding and without outer-jacket
- ILL..S.C Tinned copper braid providing mechanical protection or where traced equipment does not provide an effective earth path. eg. Plastic pipework.
- ILL..S.CS Thermoplastic outer-jacket over tinned copper braid provides additional protection.
- ILL..S.CF Fluoropolymer outer-jacket over tinned copper braid provides protection where corrosive chemical solutions or vapors may be present.



# ILL..S..(CT/CF)

## Technical Data

Max. Allowed Temperature: Energized 85°C  
De-energized 85°C

Min. Installation Temperature: -30°C

Power Supply: 22-24V (11-12V) AC/DC

Maximum Resistance of protective Braiding: 18,2 Ohm/km

Weights and Dimensions (only 12W + 17W):

Type	Dimension Nominal (mm)	Weight Kg/100m	Min. Bending Radius (mm)	Gland Size
ILL..S..	8,5 x 3,9	4,6	25	M20
ILL..S..C	9,3 x 4,7	9	30	M20
ILL..S..CT	10,5 x 5,9	10,2	35	M20
ILL..S..CF	10,5 x 5,9	9,9	35	M20

Weights and Dimensions (only 30W):

Type	Dimension Nominal (mm)	Weight Kg/100m	Min. Bending Radius (mm)	Gland Size
ILL30S..	10,9 x 3,8	5,8	25	M20
ILL30S..C	11,9 x 4,8	12,8	30	M20
ILL30S..CT	13,1 x 6,0	13,1	30	M20
ILL30S..CF	13,1 x 6,0	13,4	30	M20

## Approval Details

Testing Authority	Certificate No.	Standard
IECEX	SIR 12.0054	IEC 60079
ATEX	Sira 12ATEX3136	EN 60079

## Ordering Information

Example:

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

## Further Information

Please consult the installation instructions!

## Max. Length (m) vs. Circuit Breaker Size

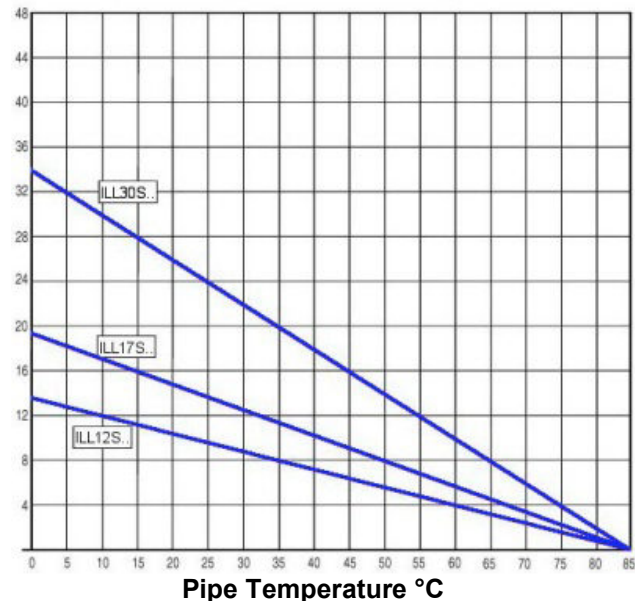
Type	Start-up temp.	Start current	6A	10A	16A
ILL12S24..	5°C	0,729A/m	8	14	20
	0°C	0,780A/m	8	12	20
	-20°C	1,016A/m	6	10	16
	-40°C	1,245A/m	4	8	12
ILL17S24..	5°C	0,921A/m	6	10	16
	0°C	0,968A/m	6	10	16
	-20°C	1,175A/m	6	8	14
	-40C	1,378A/m	4	8	12
ILL30S24..	5°C	For specialist applications only. For details of circuit lengths and start-up current please contact Quintex.			
	0°C				
	-20°C				
	-40°C				

For use with Type C circuit breakers to EN60898

## Thermal Ratings

Nominal output at 24V or 12V when ILL..S is installed on insulated metal pipes.

W/m



## Accessories

Quintex supply 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.