


ILL...(CT/CF)

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

Self-Regulating Heating Tape

85°C

- Automatically adjusts heat output in response to increasing or decreasing pipe temperature
- Will not overheat or burnout, even when overlapped
- Can be cut to length with no wastage
- Full range of controls, accessories and approvals
- Available for 220-277V AC (110-120V AC on request)
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Description

Quintherm ILL 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.

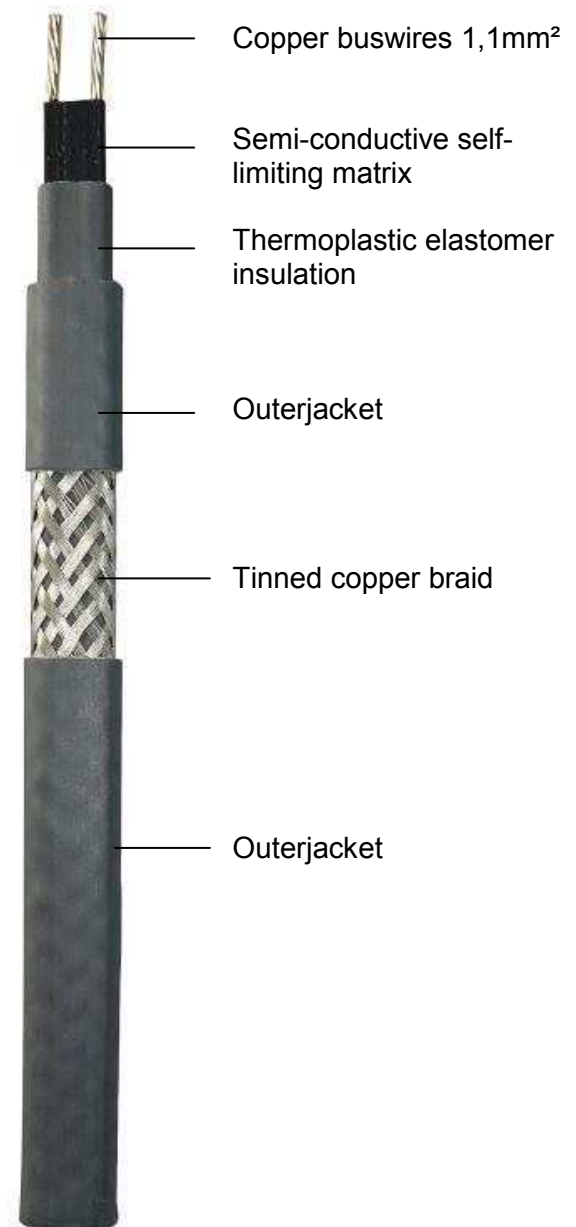
ILL is approved for use in non-hazardous, hazardous and corrosive environments to world-wide standards.

Its self-regulating characteristics improve safety and reliability. ILL 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 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... Basic heating tape without braiding and without outerjacket.
- ILL...C Tinned copper braid providing mechanical protection or where traced equipment does not provide an effective earth path. eg. Plastic pipework.
- ILL...CT Thermoplastic outerjacket over tinned copper braid provides additional protection.
- ILL...CF Fluoropolymer outerjacket over tinned copper braid provides protection where corrosive chemical solutions or vapours may be present.



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Technical Data

Max. Allowed Temperature:	Energized 85°C De-Energized 85°C
Min. Installation Temperature:	-40°C (CENELEC -20°C)
Power Supply:	220-277V AC
Temperature Classification:	up to 23W/m T6 (85°C) 31W/m and/or 277V T4 (135°C)
Maximum Resistance Of	
Protective Braiding:	≤ 18,2Ohm/km

Type	Nominal Dimensions (mm)	Weight Kg/100m	Min. Bending Radius (mm)	Gland Size
ILL...CT	10,5 x 5,9	10,2	35	M20
ILL...CF	10,5 x 5,9	9,9	35	M20

Approval Details

Testing Authority	Certificate No.	Standard
CENELEC	SCS Ex 99E3146	EN60079-0 EN60079-7
ATEX	SIRA 02ATEX3074	EN60079-0 EN60079-7 IEC62086
IEC	SIRA 02Y3064	CEI IEC62086 IEC60079-7
FM	3009080	ANSI/IEEE Std 515
VDE	114665	DIN VDE 0254
CSA	214197-1295278	C22.2 No. 130.1 C22.2 No. 130.2 C22.2 No. 138
Lloyds Register	02/00062	EN60079-0 EN60079-7 IEEE Std 515
GOST R	POCC GB.r505.B02364	GOST R 51330.0-99 GOST R 51330.8-99

Ordering Information

Example:

ILL172CT

Quintherm ILL	_____
Nominal Output 17W/m at 5°C	_____
Supply Voltage 220-277V	_____
Tinned Copper Braid	_____
Thermoplastic Outerjacket (T)	_____
Fluoropolymer Outerjacket (F)	_____

CE 0518

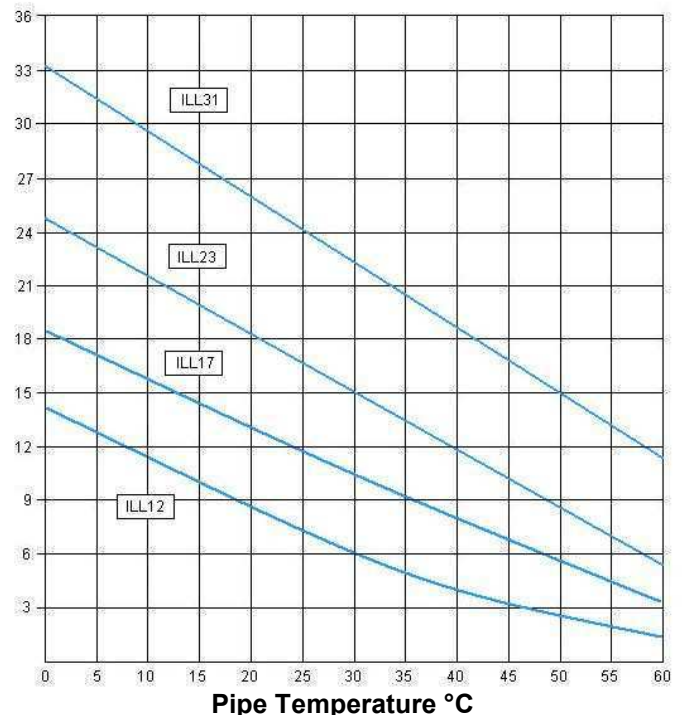
Max. Length (m) vs. Circuit Breaker Size

Type	Start-up Temp.	6A	10A	16A	20A
ILL122..	5°C	78	132	180	
	0°C	74	124	180	
	-20°C	56	94	150	180
	-40°C	46	76	124	154
ILL172..	5°C	62	104	146	
	0°C	60	100	146	
	-20°C	48	82	130	146
	-40°C	42	70	112	138
ILL232...	5°C	46	76	124	
	0°C	42	70	114	124
	-20°C	34	56	88	110
	-40°C	28	46	72	90
ILL312..	5°C	34	58	92	102
	0°C	32	52	84	102
	-20°C	24	40	56	66
	-40°C	20	34	54	66

For use with Type C circuit breakers to EN60898

Thermal Ratings

Nominal output at 230V when ILL 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.