

Warmth and safety for your house

Commercial Construction

Discover heating tapes for your house and garden



- Quality • Reliability • Delivery reliability
- Our knowledge for your application

The most common applications for trace heating in commercial constructions are:

Frost protection and Temperature maintenance

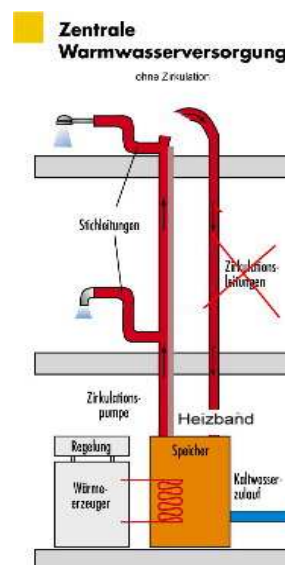


Damages by frost at water pipes

Safety for your roof and gutter against high snow loads and icicles



Temperature maintenance and decontamination of legionella in warm water pipes



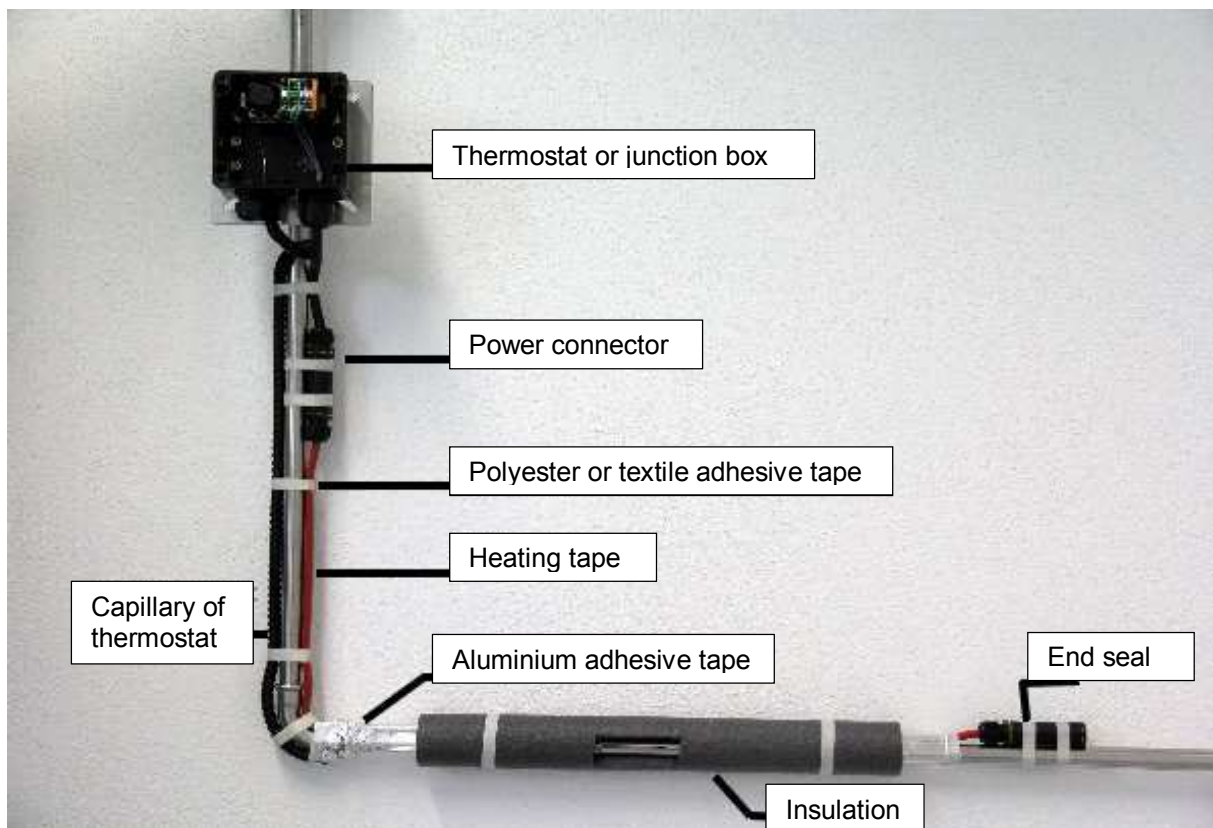
Frost protection and Temperature maintenance

The task of the trace heating system is to take care that the pipe temperature never fall 0°C under worst temperature conditions.

To allow the trace heating system to work against frost, it is very important to install insulation on the pipes.

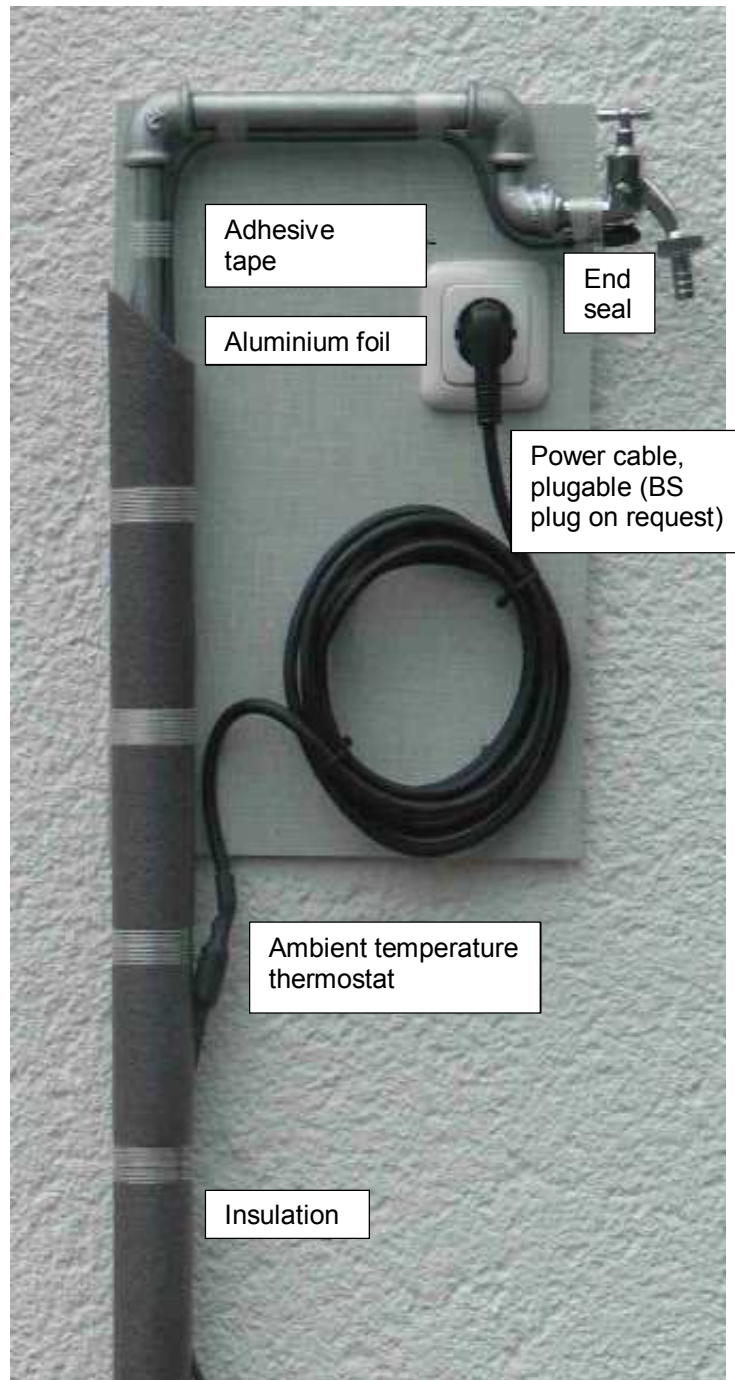
You can use pre-formed insulation, which you can buy in every home depot or you can use mineral wool mats.

System build up for frost protection with the needed components:



The build up of the system will be done on site. To connect to trace heating system to the electrical network you need an authorized person.

System build up with pre-assembled heating tapes



The total system is ready made and plugable. You only need the required length of heating circuit und the accessories for the installation. The system can be plug in without any authorized person.

Components:

Description

Required / Amount

Power cable to connection box or thermostat

AL1 up to 2,5mm², 3 wire,
on site or from Quintex

Mounting plate for the connection box or thermostat
to mount on a pipe MP1

1 x per heating circuit



Connection box AGB1 with
minithermostat or
thermostat IRM040

1 x per heating circuit



Termination set with
power connection and
end seal (IAL5S)
also e.a. buyable
Power connection IAL5A
End seal IAL5E

1 x je Heizkreis

Optional
Optional



Polyester-(PEK100) or
textile adhesive tape
(GEK130)

2 x 3,14 x pipe diameter (m)
x 5 x pipe length
= total length

Quantity = total length / 50
(round up please)

Description

Required / Amount



Heating tape ILL12 or ILL 23
Technical Data s. page 11

length = length of pipe



Aluminium adhesive tape
ALK150

Quantity = length of pipe / 50
(round up)



Label
KZE

Quantity = length of pipe / 3
(round up)

All products are easy to purchase via our webshop.

Please pay attention to the maximum circuits length linked to the type of heating.

ILL122CT max. circuit length = 180m

ILL232CT max. circuit length = 124m

For more information use our homepage: www.quintex.info

Or contact us by email: info@quintex.info

Pre-assembled heating circuits:

Description

Required / Amount



Heating tape ILL12 or ILL 23
Technical Data s. page 11

length = length of pipe



Polyester-(PEK100) or textile
adhesive tape (GEK130)

$2 \times 3,14 \times \text{pipe diameter (m)}$
 $\times 5 \times \text{pipe length}$
 $= \text{total length}$

Quantity = total length / 50
(round up please)



Aluminium adhesive tape
ALK150

Quantity = length of pipe / 50
(round up)



Label
KZE

Quantity = length of pipe / 3
(round up)

Safety of your roof and gutter against high snow loads and icicles



The task of the trace heating with this application is to avoid high snow loads on your roof or very dangerous icicles at your gutter. The winter of 2010 had shown the risk of high snow loads dramatically.

Following the experts, the climate change will lead to a bit higher temperature, but the snow will come more seldom but then much wetter than ever and this means the snow is much heavier. Some roofs are not build for such loads.

At minimum risky for people as the snow load are icicles at the gutter.

Depending on the height of a building the damage could be very high. Additionally the whole substance of the building can be damaged by water that is not running through the gutter. These damages are not directly visible.



System build up for roof and gutter de-icing:

Description

Required / Amount

Power cable to connection box or thermostat

AL1 up to 2,5mm², 3 wire, on site or from Quintex

Mounting plate for the connection box or thermostat to mount on a pipe MP1

1 x per heating circuit



Connection box AGB1 with minithermostat or thermostat IRM040

1 x per heating circuit



Label KZE

Quantity = length of pipe / 3 (round up)

Or:



Ice control system CREM1

1x for all heating circuits



Sensor for snow and humidity

1x for all heating circuits



Temperature sensor

1x for all heating circuits

All 3 components CREM1 + both sensors are an ice warning system

Description

Required / Amount



Termination set with power connection and end seal (IAL5S) also e.a. buyable
 Power connection IAL5A
 End seal IAL5E
shall be mounted outside the gutter!

1 x per heating circuit

Optional
 Optional



Aluminium adhesive tape ALK150

Quantity = length of pipe / 50 (round up)



Heating tape CLD
 Technical data s. page 12
 Max. circuit length 88m!

Total length = total gutter length + total length of down pipe +1 + heated roof area [m²] x 4



Fix strip for heating tape AB_CLD

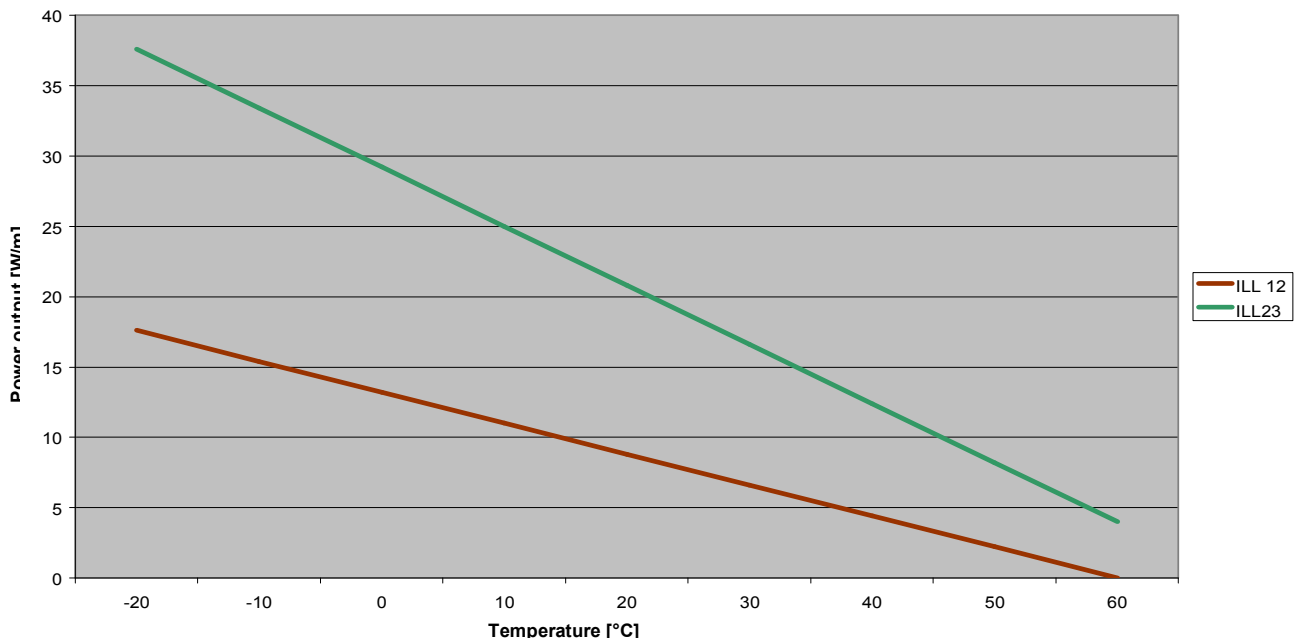
Quantity = length of gutter x 4

Technical Data ILL12 and ILL23:

Maximum temperature switch on:	85°C	
Maximum temperature switch off :	85°C	
Minimum installation temperature	-40°C	
Voltage	220 -277AC V	
Build up	Dimens.[mm]	Min.Bend radius [mm]
Polyolefin outer sheath ILL12/ILL23	10,5x5,9	35

	Switch on temp [°C]	6A	10A	16A	20A	25A
ILL12	5°C	78	132	180	-	-
	0°C	74	124	180	-	-
	-20°C	56	94	150	180	-
ILL23	-40°C	46	76	124	154	-
	5°C	46	76	124	-	-
	0°C	42	70	114	124	-
	-20°C	34	56	88	110	-
	-40°C	28	46	72	90	-

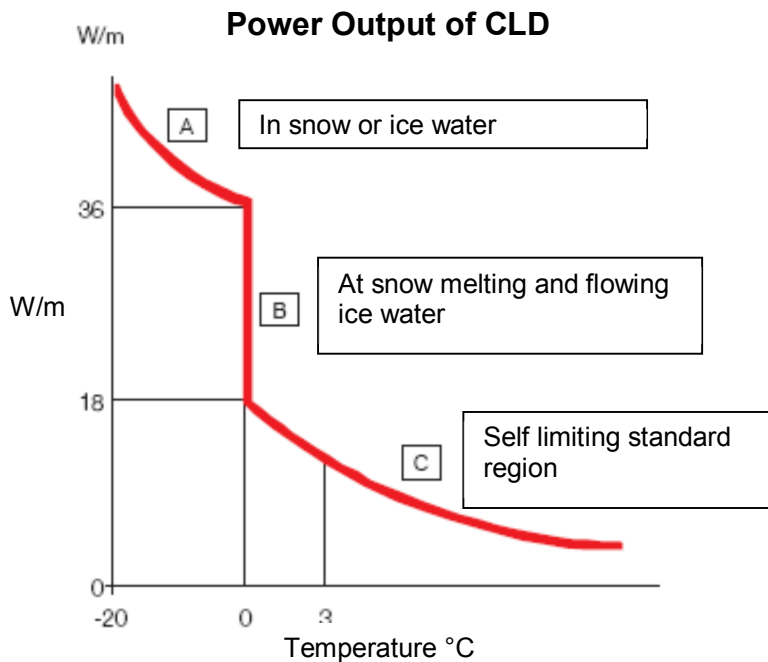
Power output Quintherm ILL



Frost protection down to -20°C
Thermal cond. 0,035 W/m K
Pipe diameter

Insulation thickness [mm]	DN	15	20	25	32	40	50	65	80	100	125	150	200
	Zoll	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
10		ILL12	ILL23	ILL23	ILL23	ILL23	ILL23	ILL23					
15		ILL12	ILL12	ILL12	ILL23	ILL23	ILL23	ILL23	ILL23	ILL23			
20		ILL12	ILL12	ILL12	ILL12	ILL12	ILL23	ILL23	ILL23	ILL23	ILL23		
25		ILL12	ILL12	ILL12	ILL12	ILL12	ILL12	ILL23	ILL23	ILL23	ILL23	ILL23	
30		ILL12	ILL12	ILL12	ILL12	ILL12	ILL12	ILL12	ILL23	ILL23	ILL23	ILL23	ILL23
40		ILL12	ILL12	ILL12	ILL12	ILL12	ILL12	ILL12	ILL12	ILL23	ILL23	ILL23	ILL23
50		ILL12	ILL12	ILL12	ILL12	ILL12	ILL12	ILL12	ILL12	ILL12	ILL23	ILL23	ILL23

Technical Data CLD:



MAXIMUM TEMPERATURE	65°C (150°F)
MINIMAL INSTALLATION TEMPERATURE	-30°C (-22°F)
SUPPLY VOLTAGE	220 – 240VAC 110 – 120VAC (auf Anfrage)
MAXIMUM RESISTANCE OF BRAIDING	18.2 Ohm/km

Maximum heating circuit length at circuit breaker size: C-Characteristic

Dimensions and weight			
Type	Dimension (mm)	Wight kg/100m	Min. Bending radius
CLD	10.5 x 5.9	10.0	35mm

Type	Switch on temp.[°C]	230V				
		6A	10A	16A	20A	30A
CLD	10°C	34	56	88	92	-
	0°C	28	48	76	92	-
	-20°C	22	36	58	74	92