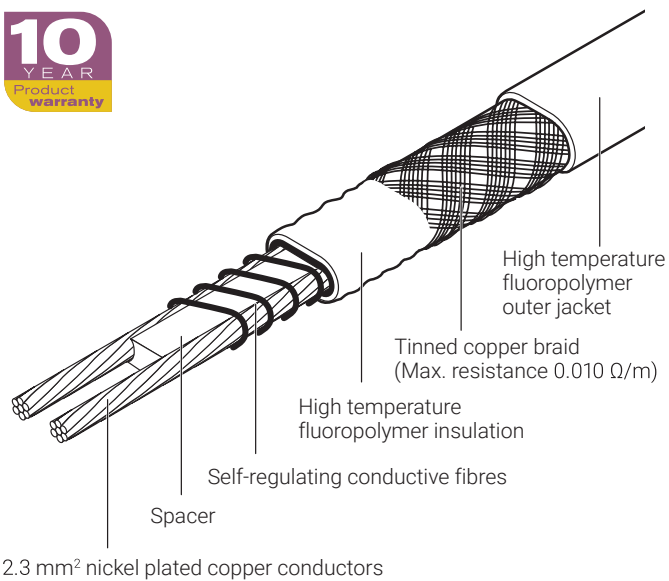


# Self-regulating heating cable

## PRODUCT OVERVIEW



Electrical heat-tracing for process temperature maintenance applications up to 121°C which may be subject to steam cleaning.

The nVent RAYCHEM XTV family of self-regulating, parallel circuit heating cables is used for process temperature maintenance of pipes and vessels.

It can also be used for frost protection of large pipes and for applications requiring high temperature exposure capability.

### Application

Traced surface type	Carbon steel Stainless steel Painted or unpainted metal
Chemical resistance	Organics and corrosives For aggressive organics and corrosives consult your local nVent representative

PRODUCT SPECIFICATIONS

Product dimensions (mm)

Width x Thickness (nominal) mm10.8 x 7.2

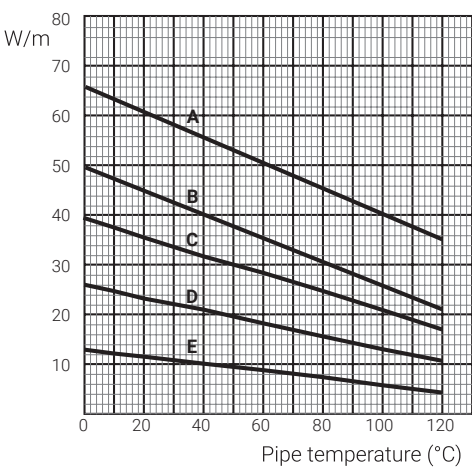
Technical details

Maximum maintain or continuous exposure temperature (power on)	121°C
Maximum intermittent exposure temperature (power on/off)	250°C (*) Maximum cumulative exposure 1000 hours (*) The 250°C rating applies to all products printed "MAX INTERMITTENT EXPOSURE 250°C"
Minimum installation temperature	−60°C
Minimum bend radius	−60°C ≤ T<-20°C: 51 mm −20°C ≤ T<-10°C: 35 mm −10°C ≤ T< 0°C: 25 mm 0°C ≤ T <+10°C: 20 mm T≥ +10°C: 12 mm

Thermal output rating

Nominal power output at 230 Vac on insulated steel pipes

- A 20XTV2-CT-T2
- B 15XTV2-CT-T3
- C 12XTV2-CT-T3
- D 8XTV2-CT-T3
- E 4XTV2-CT-T3



	4XTV2-CT-T3	8XTV2-CT-T3	12XTV2-CT-T3	15XTV2-CT-T3	20XTV2-CT-T2
Nominal power output (W/m at 10°C)	12	25	38	47	63

Maximum circuit length based on type 'C' circuit breakers according to EN 60898

Electrical protection sizing	Start-up temperature	Maximum heating cable length per circuit (m)				
16 A	−20°C	145	90	65	55	40
	+10°C	170	105	75	60	45
25 A	−20°C	225	145	105	85	65
	+10°C	245	165	120	95	70
32 A	−20°C	245	175	135	105	80
	+10°C	245	175	140	125	90
40 A	−20°C	245	175	140	135	110
	+10°C	245	175	140	135	110

The above numbers are for circuit length estimation only. For more detailed information please use the nVent TraceCalc software or Contact your local nVent representative. nVent requires the use of a 30 mA residual current device to provide maximum safety and protection from fire. Where design results in higher leakage current, the preferred trip level for adjustable devices is 30 mA above any inherent capacitive leakage characteristic of the heater as specified by the trace heater supplier or alternatively, the next common available trip level for non adjustable devices, with a maximum of 300 mA. All safety aspects need to be proven.

APPROVALS (\*)

For use in ordinary and hazardous area Zone 1 and Zone 2 (Gas), Zone 21 and Zone 22 (Dust)

Temperature classification:

T3: unconditional (except 20XTV2-CT: T2)  
T6 ...T4 using stabilized design (except 20-XTV2-CT: T6 ... T3 using stabilized design)  
nVent RAYCHEM heat-tracing products are approved for the listed temperature classifications by using the principles of stabilized design (as per system classification approach). Use TraceCalc design software or contact nVent.

Product certification



More details about product certification, approvals and conditions of safe use are available in the installation manual for Self-regulating and Power limiting heating cable systems at [www.nVent.com/RAYCHEM](http://www.nVent.com/RAYCHEM)

ORDERING INFORMATION

Part description	4XTV2-CT-T3	8XTV2-CT-T3	12XTV2-CT-T3	15XTV2-CT-T3	20XTV2-CT-T2
Part No. (**)	P000001667	P000001670	P000001673	P000001675	P000001677
Weight (g/m)	170	170	170	170	170

Components

nVent offers a full range of components for power connections, splices and end seals.  
These components must be used to ensure proper functioning of the product and compliance with electrical requirements.

(\*\*) Localized versions may exist with limited approvals and different part numbers. Contact your local sales representative.