HEAT TRACING SYSTEMS
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total competence in electric surface heating

XTV

Raychem

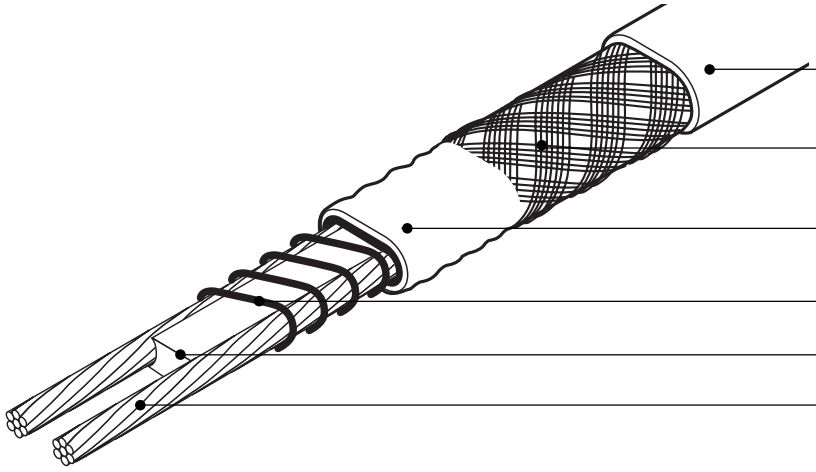
Self-regulating heating cables

Electrical trace-heating for process temperature maintenance applications up to 120°C which may be subject to steam cleaning.

The 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.

Heating cable construction



Application

Area classification	Hazardous, Zone 1 or Zone 2 Ordinary
Traced surface type	Carbon steel Stainless steel Painted
Chemical resistance	Organics and corrosives For aggressive organics and corrosives consult your local Raychem Representative

Supply voltage

230 Vac (Contact your local Raychem Representative for data on other voltages)

Approvals

The XTV heating cables are approved for use in hazardous areas Zone 1 and Zone 2 by PTB and BASEEFA. They are also VDE approved.

Ex II 2 G EEx e(m) II 240°C(T2)/T3/T4
PTB 98 ATEX 1105 X

Ex II 2 G EEx e II T3 and 240°C (T2)
BAS98ATEX2335X

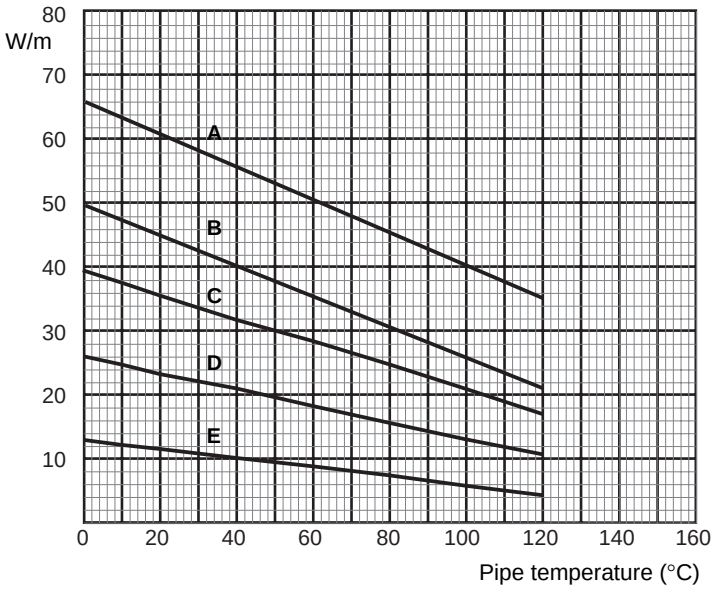
Specifications

Maximum exposure temperature (continuous power on)	120°C
Max. exposure temperature (intermittent power on)	215°C (20 bar saturated steam) Maximum cumulative exposure 1000 hours
Temperature classification	20XTV2-CT-T2: T2 4XTV2-CT-T3, 8XTV2-CT-T3, 12XTV2-CT-T3, 15XTV2-CT-T3: T3 in accordance with European Standard EN 50 014
Minimum installation temperature	–30°C
Minimum bend radius	at 20°C: 12.7 mm at –30°C: 50.8 mm

Thermal output rating

Power output at 230 Vac on insulated steel pipes

A 20XTV2
B 15XTV2
C 12XTV2
D 8XTV2
E 4XTV2



To choose the correct heating cable for your application use the Selection guide for industrial trace-heating systems. For more detailed information, use the TraceCalc software.

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

Product dimensions (nominal) and weight					
Thickness (mm)	7.2	7.2	7.2	7.2	7.2
Width (mm)	11.7	11.7	11.7	11.7	11.7
Weight (g/m)	170	170	170	170	170

Maximum circuit length

Electrical protection sizing	Start-up temperature	Maximum heating cable length per circuit (m)				
16A	–20°C	140	85	65	55	40
	+10°C	165	105	75	60	45
25A	–20°C	215	135	100	85	60
	+10°C	250	165	120	95	70
32A	–20°C	250	175	130	105	80
	+10°C	250	180	145	120	90
40A	–20°C	250	180	145	130	100
	+10°C	250	180	145	130	110

The above numbers are for circuit length estimation only. For more detailed information please use the Raychem TraceCalc software or contact your local Raychem representative.
Raychem requires the use of a 30 mA residual current device to provide maximum safety and protection from fire.

Components Raychem 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.