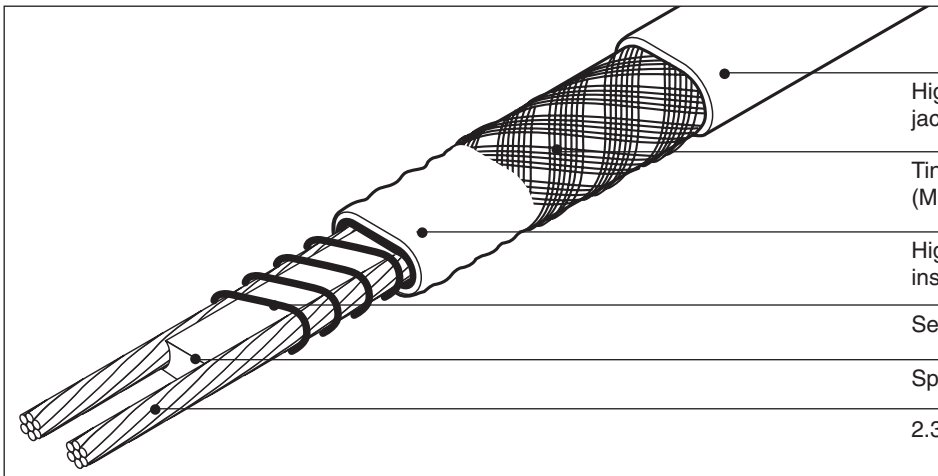
Self-regulating heating cable

Electrical heat-tracing 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

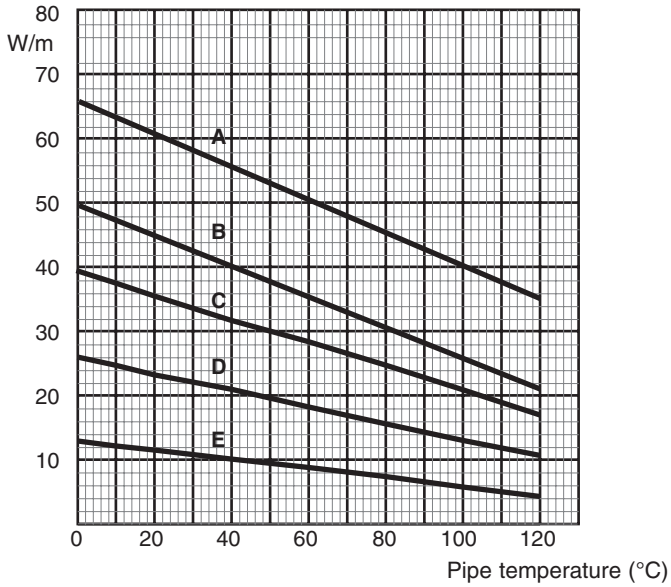


Application	
Area classification	Hazardous, Zone 1, Zone 2 (Gas), Zone 21, Zone 22 (Dust) Ordinary
Traced surface type	Carbon steel Stainless steel Painted or unpainted metal
Chemical resistance	Organics and corrosives For aggressive organics and corrosives consult your local Tyco Thermal Controls representative
Supply voltage	230 Vac (Contact your local Tyco Thermal Controls representative for data on other voltages)
Approvals	The XTV heating cables are approved for use in hazardous areas by PTB and Baseefa 2001 Ltd. PTB 98 ATEX 1105 X Ⓔx II 2 G/D EEx e(m) II T4/T3/250°C(T2) IP66 T130°C, T195°C, T250°C BAS98ATEX2336X Ⓔx II 2 GD EEx e II T3 and 240°C (T2) The XTV heating cables are approved by DNV for use on ships and mobile off shore units. DNV Certificate No. E-6968 They are also VDE approved.
Specifications	
Maximum exposure temperature (continuous power on)	120°C
Max. exposure temperature (intermittent power on and off)	215°C (20 bar saturated steam) Maximum cumulative exposure 1000 hours
Temperature classification	T2: 20XTV2-CT-T2 T3: 4XTV2-CT-T3, 8XTV2-CT-T3, 12XTV2-CT-T3, 15XTV2-CT-T3 in accordance with European Standard EN 50 014
Minimum installation temperature	–60°C
Minimum bend radius	at 20°C: 13 mm at –60°C: 51 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
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 based on type 'C' circuit breakers according to EN 60898

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

The above numbers are for circuit length estimation only. For more detailed information please use the Tyco Thermal Controls TraceCalc software or contact your local Tyco Thermal Controls representative.
Tyco Thermal Controls requires the use of a 30 mA residual current device to provide maximum safety and protection from fire. Where design results in a higher leakage current, a maximum 300 mA residual current device may be used. All safety aspects need to be proven.

Ordering details

Part description	4XTV2-CT-T3	8XTV2-CT-T3	12XTV2-CT-T3	15XTV2-CT-T3	20XTV2-CT-T2
Part No.	002735-000	325059-000	427089-000	214999-000	849015-000

Components Tyco Thermal Controls 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.