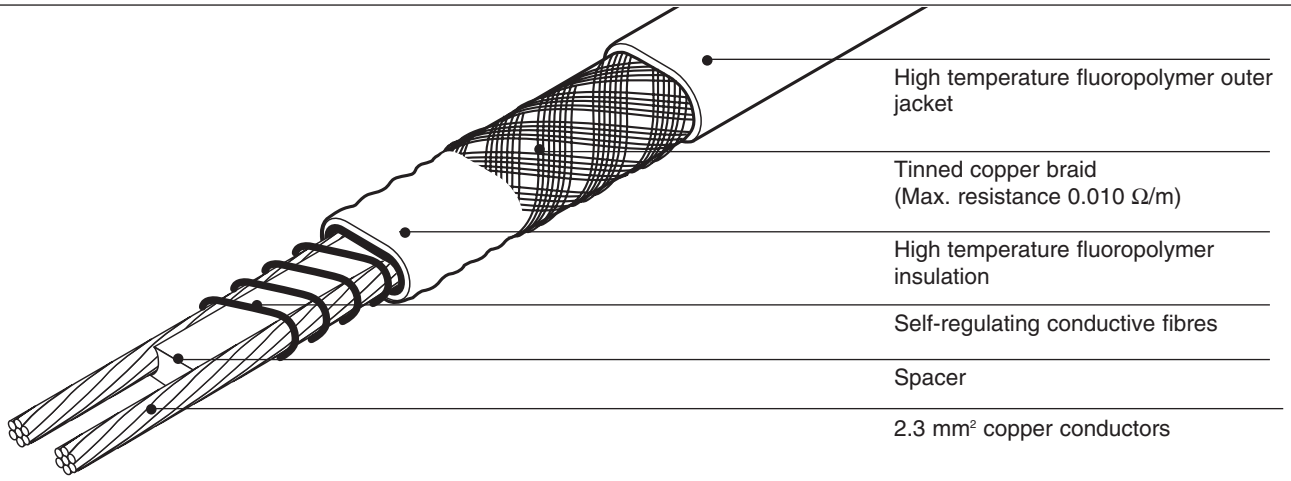
Self-regulating heating cables

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

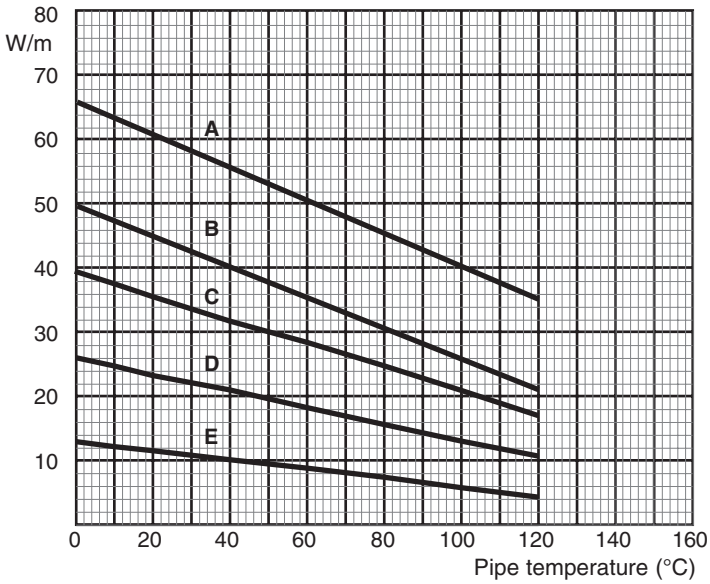


Application	
Area classification	Hazardous, Zone 1 or Zone 2 Ordinary
Traced surface type	Carbon steel Stainless steel Painted or unpainted metal
Chemical resistance	Organics and corrosives For aggressive organics and corrosives consult your local Tyco Thermal Controls Representative
Supply voltage	230 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 Zone 1 and Zone 2 by PTB and BASEEFA. Ⓔx II 2 G EEx e(m) II 250°C (T2)/T3/T4 PTB 98 ATEX 1105 X Ⓔx II 2 G EEx e II T3 or 240°C (T2) BAS98ATEX2336X The XTV heating cables are approved by DNV for use on ships and mobile off shore units. DNV Certificate No. E-5122 They are also VDE approved.
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	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: 12.7 mm at –60°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



	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 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 there is a marked increase in nuisance tripping, a maximum 300 mA residual current device may be used.

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.