

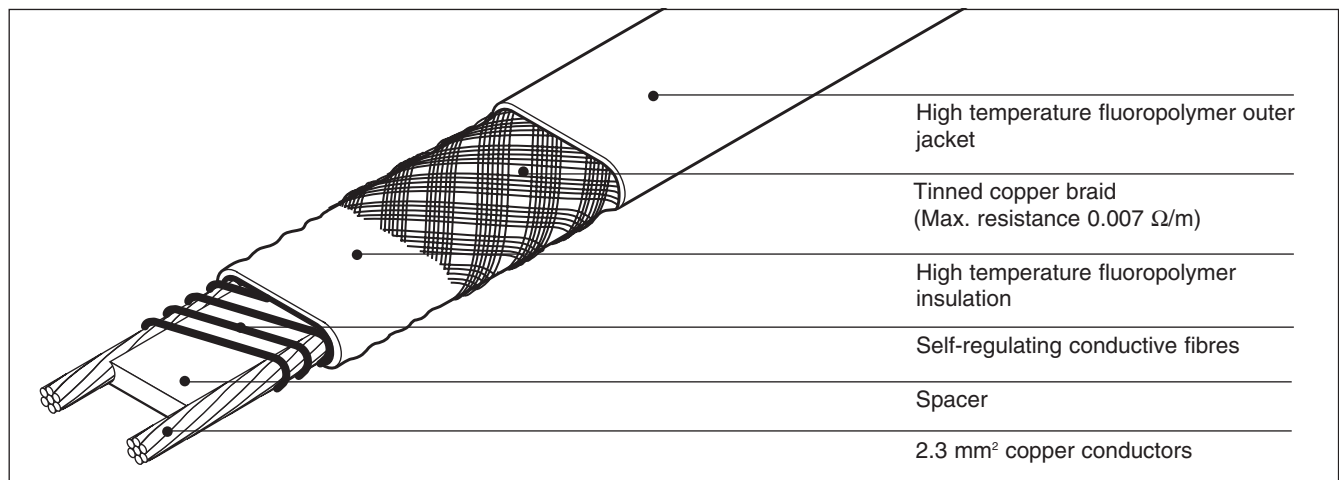
Self-regulating heating cables

Electrical trace-heating for process temperature maintenance applications up to 150°C which may be subject to steam cleaning.

The KTV 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)
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Approvals

The KTV heating cables are approved for use in hazardous areas by PTB and Baseefa 2001 Ltd.



II 2 G/D EEx e(m) II T4/T3/226°C (T2)
IP66 T130°C, T195°C, T226°C
PTB 98 ATEX 1104 X



II 2 GD EExe II 226°C(T2)
BAS98ATEX2335X

The KTV 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.

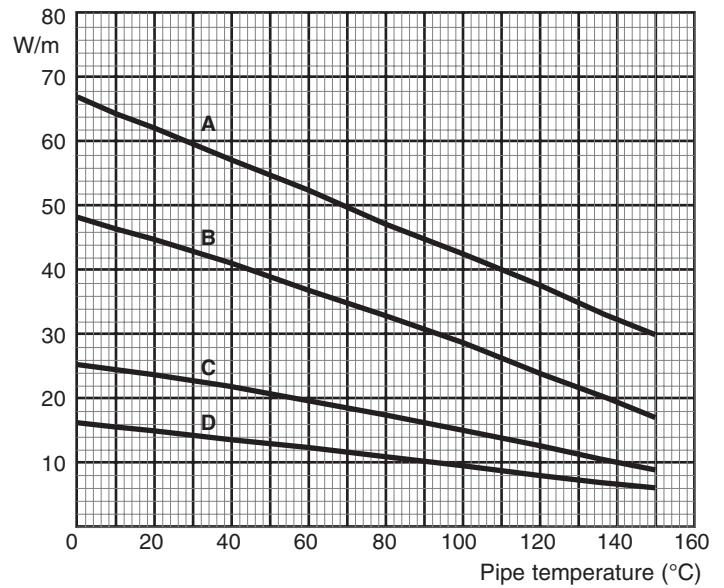
Specifications

Maximum exposure temperature (continuous power on)	150°C
Max. exposure temperature (intermittent power on and off)	215°C (20 bar saturated steam) Maximum cumulative exposure 1000 hours
Temperature classification	T2 in accordance with European Standard EN 50 014
Minimum installation temperature	-60°C
Minimum bend radius	at 20°C: 26 mm at -60°C: 51 mm

Thermal output rating

Nominal power output at 230 Vac on insulated steel pipes

- A 20KTV2-CT
- B 15KTV2-CT
- C 8KTV2-CT
- D 5KTV2-CT



	5KTV2-CT	8KTV2-CT	15KTV2-CT	20KTV2-CT
Nominal power output (W/m at 10°C)	16	25	47	65

Product dimensions (nominal) and weight

Thickness (mm)	7.6	7.6	7.6	7.6
Width (mm)	13.3	13.3	13.3	13.3
Weight (g/m)	250	250	250	250

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	130	95	60	40
	+10°C	145	105	65	45
25A	-20°C	205	150	90	65
	+10°C	230	165	100	75
32A	-20°C	230	180	115	85
	+10°C	230	180	130	95
40A	-20°C	230	180	130	105
	+10°C	230	180	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 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	5KTV2-CT	8KTV2-CT	15KTV2-CT	20KTV2-CT
Part No.	866752-000	196865-000	368748-000	790842-000

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.