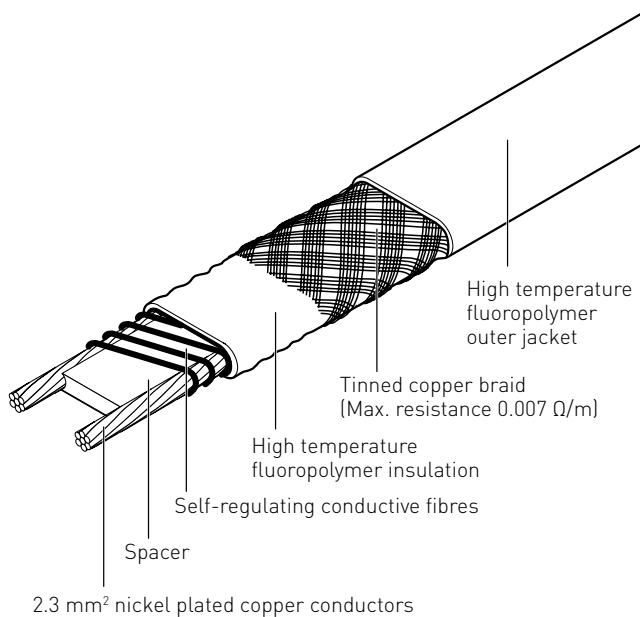


Raychem KTV

SELF-REGULATING HEATING CABLE

HEATING CABLE CONSTRUCTION



Electrical heat-tracing 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.



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 Pentair Thermal Management representative

SUPPLY VOLTAGE

	230 Vac (Contact your local Pentair Thermal Management 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 Ltd. PTB 09 ATEX 1117 X & Baseefa06ATEX0186X  II 2G Ex e II 226°C (T2) &  II 2D Ex tD A21 IP66 T226°C IECEX PTB 09.0058X & IECEX BAS 06.0046X Ex e II 226°C (T2) & Ex tD A21 IP66 T226°C
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The KTV heating cables are approved by DNV for use on ships and mobile off shore units. DNV Certificate No. E-8934
The products also have the required approvals for use in Kazakhstan, Russia and many other countries. Contact your local Pentair Thermal Management representative for more details.

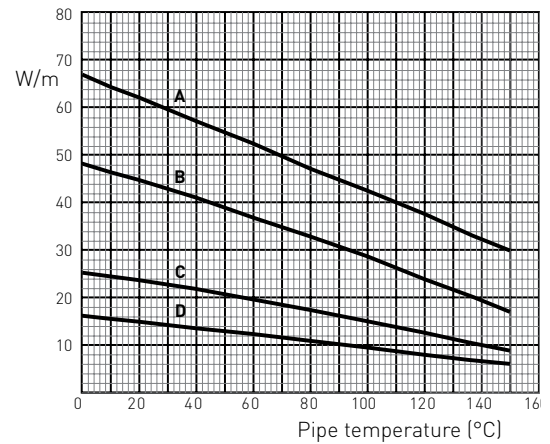
SPECIFICATIONS

Maximum maintain or continuous exposure temperature (power on)	150°C
Maximum intermittent exposure temperature (power on)	215°C (20 bar saturated steam) Maximum cumulative exposure 1000 hours
Temperature classification	T2
Based on systems approach*	T3-T6 *Raychem KTV heat-tracing cables are approved for the listed temperature classifications by using the principles of stabilized design (as per system classification approach) or the use of a temperature limiting device. Use TraceCalc design software or contact Pentair Thermal Management.
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

	5KTV2-CT	8KTV2-CT	15KTV2-CT	20KTV2-CT
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)			
		16 A	-20°C	130	95
	+10°C	145	105	65	45
25 A	-20°C	205	150	90	65
	+10°C	230	165	100	75
32 A	-20°C	230	180	115	85
	+10°C	230	180	130	95
40 A	-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 Pentair Thermal Management TraceCalc software or contact your local Pentair Thermal Management representative. Pentair Thermal Management 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.

ORDERING DETAILS

Part description	5KTV2-CT	8KTV2-CT	15KTV2-CT	20KTV2-CT
Part No.	866752-000	196865-000	368748-000	790842-000

COMPONENTS

Pentair Thermal Management 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.



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