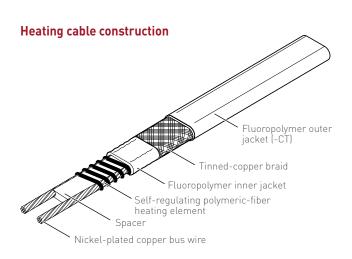


Raychem KTV HIGH-TEMPERATURE SELF-REGULATING HEATING CABLES



Electrical freeze protection and process-temperature maintenance for both nonhazardous and hazardous locations



PRODUCT OVERVIEW

The KTV family of self-regulating heating cables provides high-temperature electrical heat-tracing for industrial freeze protection and process temperature maintenance applications requiring high power output. KTV heating cables can withstand temperatures up to 482°F (250°C) and provide process temperature maintenance to 300°F (150°C).

The heating cables are configured for use in nonhazardous and hazardous locations, including areas where corrosives may be present.

Raychem KTV cables meet the requirements of the U.S. National Electrical Code and the Canadian Electrical Code. For additional information, contact your Pentair Industrial Heat Tracing Solutions representative or call (800) 545-6258.

APPLICATION

Area classification	ace type Metal					
Traced surface type						
Chemical resistance						
SUPPLY VOLTAGE						
KTV1	100–130 Vac					
KTV2	200–277 Vac					
TEMPERATURE RATING						
Maximum maintain or continuous exposure temperature (power on)	300°F (150°C)					
Maximum intermittent exposure temperature, 1000 hours (power on or off)	482°F (250°C)*					
	-40°F (-40°C)					

*The 250°C rating applies to all products printed "MAX INTERMITTENT EXPOSURE 250C"

TEMPERATURE ID NUMBER (T-RATING)

	T2C: 446°F (230°C) Temperature ID numbers are consistent with North America National Electrical Codes.
Based on systems approach*	ТЗ -Т6
*Paycham KTV heating cables are an	proved for T3-T4 temperature classes when stabilized or controlled decigns are used

*Raychem KTV heating cables are approved for T3 -T6 temperature classes when stabilized or controlled designs are used according to the requirements of applicable national and international approvals standards. Use TraceCalc Pro design software or contact Pentair Industrial Heat Tracing Solutions.

APPROVALS

[1]

[* **]



manufacturer.

IECEx BAS 06.0046X Ex e IIC T* Gb Ex tD A21 IP66 T**°C

For maximum surface temperature, see heating

Applications must be reviewed by the

DESIGN AND INSTALLATION

cable, design documentation or schedule

Hazardous Locations Class I, Div. 2, Groups A, B, C, D Class II⁽¹⁾ Div. 2, Groups F, G Class III⁽¹⁾ Div. 2, Groups F, G



Class I, Div. 1 and 2, Groups A, B, C, D Class II, Div. 1 and 2, Groups E, F, G Class III

KTV heating cables also have many other approvals, including Baseefa, PTB, DNV, and ABS.

For proper design and installation, use TraceCalc Pro design software or the design section of the Industrial Heat Tracing Solutions Products & Services Catalogue (H56550). Also, refer to the Industrial Heat-Tracing Installation and Maintenance Manual (H57274). Literature is available via the Pentair Industrial Heat Tracing Solutions web site, www.pentairthermal.com.

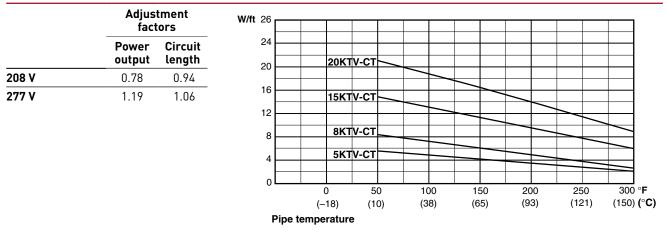
Zone Approvals

CLI, ZN1, AEx e II T3 (T2)

Ex e II T3 (T2)

FM

NOMINAL POWER OUTPUT RATING ON METAL PIPES AT 120 V / 240 V



Note: To choose the correct heating cable for your application, use the Design section of the Industrial Heat Tracing Solutions Products & Services Catalogue (H56550). For more detailed information, use TraceCalc Pro design software.

MAXIMUM CIRCUIT LENGTHS BASED ON CIRCUIT BREAKER SIZES

	A	hight	Maximum circuit length (in feet) per circuit breaker										
		Ambient temperature		120 V					240 V				
		art-up	15 A	20 A	30 A	40 A	50 A	15 A	20 A	30 A	40 A	50 A	
5KTV	50°F	(10°C)	180	240	360	385	385	360	480	720	765	765	
	0°F	(-18°C)	160	215	320	385	385	320	430	640	765	765	
	-20°F	(-29°C)	155	205	305	385	385	310	415	620	765	765	
	-40°F	(-40°C)	145	195	290	385	385	300	400	600	765	765	
8KTV	50°F	(10°C)	130	170	260	300	300	260	345	515	600	600	
	0°F	(-18°C)	115	150	225	300	300	230	310	465	600	600	
	-20°F	(-29°C)	110	145	215	290	300	225	295	445	595	600	
15KTV	–40°F 50°F	(-40°C) (10°C)	105 80	140 105	205 160	275 215	300 220	215 160	285 215	430 320	570 425	600 440	
	0°F	(10°C) (-18°C)	80 75	95	145	195	220	145	190	285	425 385	440	
	-20°F	(-29°C)	70	95	140	185	220	140	185	275	370	440	
	-40°F	(-40°C)	65	90	135	180	220	140	180	265	355	440	
20KTV	50°F	(10°C)	55	75	115	155	185	115	155	230	305	375	
	0°F	(-18°C)	50	70	105	140	175	105	140	210	280	350	
	–20°F	(-29°C)	50	65	100	135	165	100	135	200	270	335	
	-40°F	(-40°C)	50	65	95	130	160	95	130	195	260	325	
PRODUCT CH		^											
		65	0/005	(0000)	ог: (1)								
Minimum bend radius			-	@68°F (20°C): 0.5 in (12.7 mm)									
Weight (lb per 10 ft, nominal)			1.35										
Bus wire size				14 AWG									
Outer jacket co	olor		Red										
Heating cable	dimensions		0.61 in x	x 0.36 in	(13.3 m	m x 7.6	mm)						
ORDERING DETAILS		DESCRIPTION			PART NUMBER								
			5KTV1	-CT		P0000	01678						
			5KTV2	-CT		P0000	01679						
		8KTV1-CT			P000001680								
		8KTV2	8KTV2-CT			P000001681							
			15KTV1-CT			P000001682							
			15KTV2-CT			P000001683							
			20KTV1				01684						
			20KTV2	-01		P0000	01685						
CONNECTION	KITS												
<u>GROUND-FAU</u>	LT PROTECTI	<u>0N</u>	Pentair Industrial Heat Tracing Solutions offers a full range of connection kits for power connections, splices, and end seals. These connection kits must be used to ensure proper functioning of the product and compliance with warranty, code, and approvals requirements. To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of Pentair Industrial Heat Tracing Solutions, agency certifications, and national electrical codes, ground-fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection. Many Raychem control and monitoring systems meet the ground-fau protection requirement.										



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