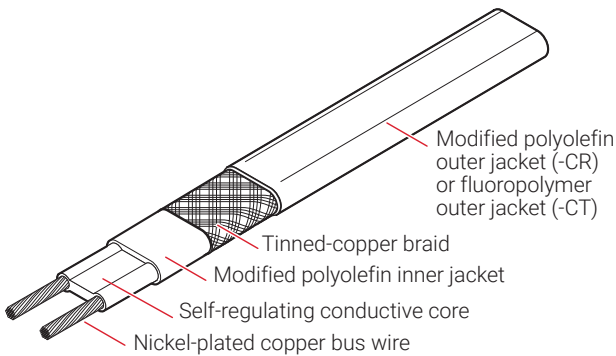


SELF-REGULATING HEATING CABLES ELECTRICAL FREEZE PROTECTION FOR BOTH NONHAZARDOUS AND HAZARDOUS LOCATIONS



Heating cable construction



PRODUCT OVERVIEW

The nVent RAYCHEM BTV family of self-regulating heating cables provides the solution to freeze-protection and process-temperature maintenance applications.

BTV heating cables maintain process temperatures up to 150°F (65°C) and can withstand intermittent exposure to temperatures up to 185°F (85°C).

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

BTV cables meet the requirements of the U.S. National Electrical Code and the Canadian Electrical Code.

For additional information, contact your nVent representative or call (800) 545-6258.

APPLICATION

Area classification	Nonhazardous and hazardous locations
Traced surface type	Metal and plastic
Chemical resistance	<ul style="list-style-type: none"> • Exposure to aqueous inorganic chemicals: Use -CR (modified polyolefin outer jacket) • Exposure to organic chemicals or corrosives: Use -CT (fluoropolymer outer jacket) • For aggressive organics and corrosives: Consult your nVent representative.

SUPPLY VOLTAGE

BTV1	100–130 Vac
BTV2	200–277 Vac

TEMPERATURE RATING

Maximum maintain or continuous exposure temperature (power on)	150°F (65°C)
Maximum intermittent exposure temperature, 1000 hours (power on)	185°F (85°C)
Minimum installation temperature	-40°F (-40°C)

TEMPERATURE ID NUMBER (T-RATING)

T6: 185°F (85°C)	Temperature ID numbers are consistent with North America national electrical codes.
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APPROVALS

IECEX

IECEX BAS 06.0043X
Ex e IIC T6 Gb
Ex tD A21 IP66 T80°C

- (1) BTV-CR is not CSA Certified for Division 1
(2) BTV-CT only

Hazardous Locations



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



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

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

Zone Approvals



CLI, ZN1, AEx e II T6⁽²⁾



Ex e II T6⁽²⁾



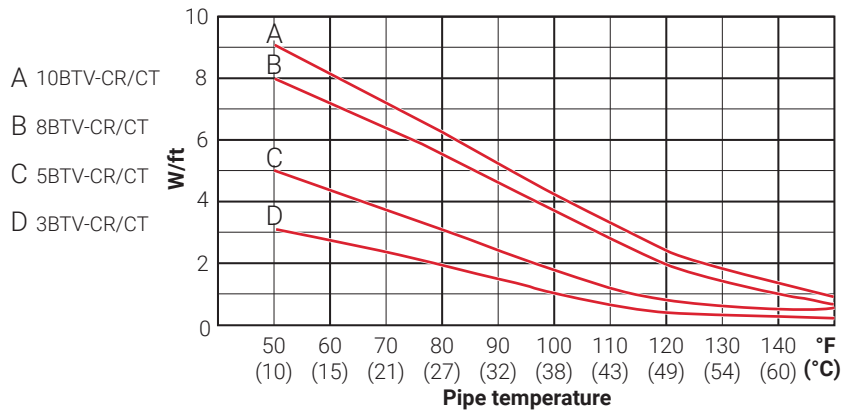
Ex e IIC T6 Gb

DESIGN AND INSTALLATION

For proper design and installation, use TraceCalc Pro design software or the Design section of the nVent Products & Services Catalogue (H56550). Also, refer to the nVent Installation and Maintenance Manual (H57274). Literature is available via the nVent website, nVent.com/THERMAL.

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

	Adjustment factors	
	Power output	Circuit length
208 V		
3BTV2-CR/CT	0.82	0.96
5BTV2-CR/CT	0.85	0.94
8BTV2-CR/CT	0.89	0.92
10BTV2-CR/CT	0.89	0.92
277 V		
3BTV2-CR/CT	1.13	1.08
5BTV2-CR/CT	1.12	1.09
8BTV2-CR/CT	1.08	1.11
10BTV2-CR/CT	1.08	1.11



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

MAXIMUM CIRCUIT LENGTHS BASED ON CIRCUIT BREAKER SIZES

	Maximum circuit length (in feet) per circuit breaker									
	Ambient temperature at start-up		120 V				240 V			
			15 A	20 A	30 A	40 A	15 A	20 A	30 A	40 A
3BTV-CR/CT	50°F	(10°C)	330	330	330	330	660	660	660	660
	0°F	(-18°C)	200	265	330	330	395	530	660	660
	-20°F	(-29°C)	175	235	330	330	350	465	660	660
	-40°F	(-40°C)	155	205	310	330	310	410	620	660
5BTV-CR/CT	50°F	(10°C)	230	270	270	270	460	540	540	540
	0°F	(-18°C)	140	190	270	270	285	380	540	540
	-20°F	(-29°C)	125	165	250	270	250	330	500	540
	-40°F	(-40°C)	110	145	220	270	220	295	440	540
8BTV-CR/CT	50°F	(10°C)	150	200	210	210	300	400	420	420
	0°F	(-18°C)	100	130	200	210	200	265	400	420
	-20°F	(-29°C)	85	115	175	210	175	235	350	420
	-40°F	(-40°C)	80	105	155	210	155	210	315	420
10BTV-CR/CT	50°F	(10°C)	120	160	180	180	240	315	360	360
	0°F	(-18°C)	80	110	160	180	160	215	325	360
	-20°F	(-29°C)	70	95	140	180	145	190	285	360
	-40°F	(-40°C)	65	85	125	170	125	170	255	340

PRODUCT CHARACTERISTICS

	3BTV, 5BTV	8BTV, 10BTV
Minimum bend radius	@68°F (20°C): 0.5 in (12.7 mm)	@68°F (20°C): 0.5 in (12.7 mm)
Weight (lb per 10 ft, nominal)	0.7	1.0
Bus wire size	16 AWG	16 AWG
Outer jacket color	Black	Black
Heating cable dimensions	0.46 in x 0.25 in (11.7 mm x 6.35 mm)	0.65 in x 0.26 in (16.5 mm x 6.6 mm)

ORDERING DETAILS

Description	Part number
3BTV1-CR	013331-000
3BTV1-CT	893301-000
3BTV2-CR	914279-000
3BTV2-CT	469145-000
5BTV1-CR	208489-000
5BTV1-CT	313747-000
5BTV2-CR	414809-000
5BTV2-CT	487509-000
8BTV1-CR	413851-000
8BTV1-CT	481491-000
8BTV2-CR	479821-000
8BTV2-CT	008633-000
10BTV1-CR	002349-000
10BTV1-CT	516277-000
10BTV2-CR	677245-000
10BTV2-CT	567513-000

CONNECTION KITS

nVent 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.

GROUND-FAULT PROTECTION

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 nVent, 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-fault protection requirement.

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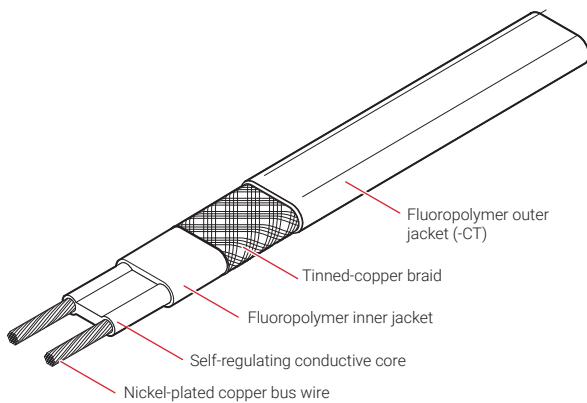


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SELF-REGULATING HEATING CABLES ELECTRICAL PROCESS-TEMPERATURE MAINTENANCE FOR BOTH NONHAZARDOUS AND HAZARDOUS LOCATIONS



Heating cable construction



PRODUCT OVERVIEW

The nVent RAYCHEM QTVR family of self-regulating heating cables is designed for pipe heat tracing in industrial applications. QTVR heating cables can provide process-temperature maintenance up to 225°F (110°C) and can also be used for freeze protection in systems having high heat loss. The heating cables are configured for use in nonhazardous and hazardous locations, including areas where corrosives may be present.

QTVR cables meet the requirements of the U.S. National Electrical Code and the Canadian Electrical Code. For additional information, contact your nVent representative or call (800) 545-6258.

APPLICATION

Area classification	Nonhazardous and hazardous locations
Traced surface type	Metal and some plastics For use on plastic pipes, refer to TraceCalc Pro design software.
Chemical resistance	Organic and aqueous inorganic chemicals and corrosives

SUPPLY VOLTAGE

QTVR1	100–130 Vac
QTVR2	200–277 Vac






TEMPERATURE RATING

Maximum maintain or continuous exposure temperature (power on)	225°F (110°C)
Minimum installation temperature	–40°F (–40°C)

TEMPERATURE ID NUMBER (T-RATING)

T4: 275°F (135°C)
Temperature ID numbers are consistent with North America national electrical codes.

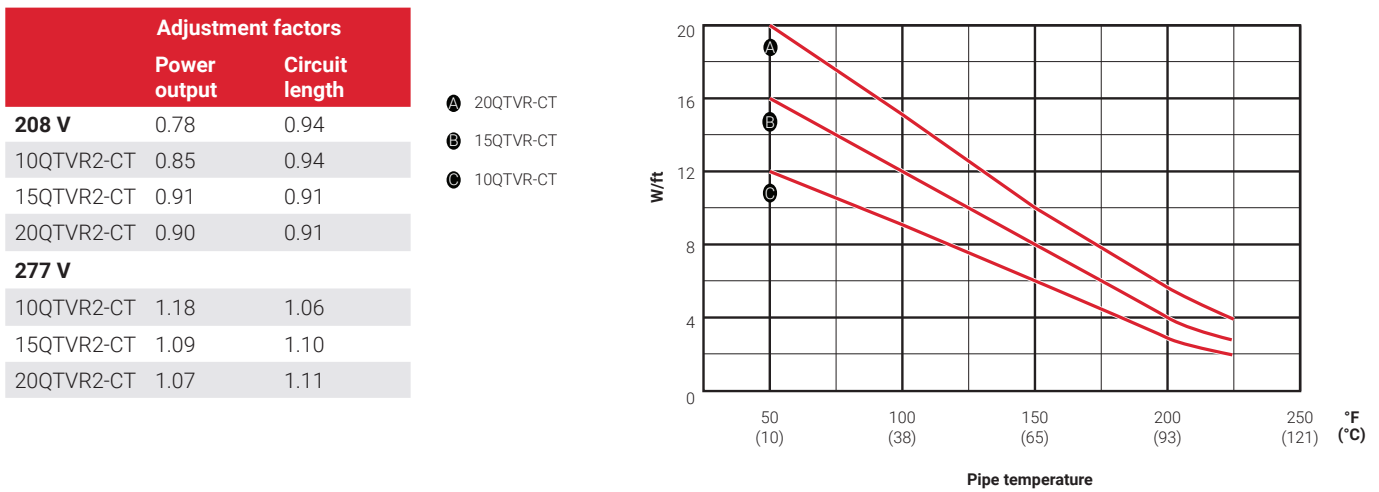
APPROVALS

<p>IECEX</p> <p>IECEX BAS 06.0045X Ex e IIC T4 Gb Ex tD A21 IP66 T130°C</p>	<p>Hazardous Locations</p>  <p>Class I, Div. 2, Groups A, B, C, D Class II, Div. 2, Groups F, G Class III</p>	<p>Zone Approvals</p>  <p>CL I, ZN1, AEx e II T4</p>
	 <p>Class I, Div. 1 and 2, Groups A, B, C, D Class II, Div. 1 and 2, Groups E, F, G Class III</p>	 <p>Ex e II T4</p>
	 <p>Ex e IIC T4 Gb</p>	
	<p>QTVR heating cables also have many other approvals, including Baseefa, PTB, DNV, and ABS.</p>	

DESIGN AND INSTALLATION

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

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 Products & Services Catalog (H56550). For more detailed information, use TraceCalc Pro design software.

MAXIMUM CIRCUIT LENGTHS BASED ON CIRCUIT BREAKER SIZES

	Ambient temperature at start-up	Maximum circuit length (in feet) per circuit breaker									
		120 V					240 V				
		15 A	20 A	30 A	40 A	50 A	15 A	20 A	30 A	40 A	50 A
10QTVR-CT	50°F (10°C)	100	130	195	195	†	200	265	390	390	†
	0°F (-18°C)	80	105	160	195	†	160	210	320	390	†
	-20°F (-29°C)	70	95	145	195	†	145	195	295	390	†
	-40°F (-40°C)	65	90	135	180	†	135	180	275	365	†
15QTVR-CT	50°F (10°C)	75	100	150	200	220	160	210	320	340	†
	0°F (-18°C)	60	80	120	160	200	125	170	255	340	†
	-20°F (-29°C)	55	70	110	145	185	115	155	235	315	†
	-40°F (-40°C)	50	65	100	135	170	110	145	220	290	†
20QTVR-CT	50°F (10°C)	60	80	120	160	195	120	160	240	320	390
	0°F (-18°C)	45	60	95	125	160	95	125	190	255	320
	-20°F (-29°C)	40	55	85	115	145	85	115	175	235	295
	-40°F (-40°C)	40	55	80	110	135	80	110	165	220	275

† Not permitted

PRODUCT CHARACTERISTICS

	10QTVR1-CT, 10QTVR2-CT, 15QTVR2-CT	15QTVR1-CT, 20QTVR1-CT, 20QTVR2-CT
Minimum bend radius	@68°F (20°C): 0.5 in (12.7 mm)	@68°F (20°C): 0.5 in (12.7 mm)
Weight (lb per 10 ft, nominal)	0.85	1.21
Bus wire size	16 AWG	14 AWG
Outer jacket color	Brown	Brown
Heating cable dimensions	0.55 in x 0.25 in (14 mm x 6.35 mm)	0.61 in x 0.25 in (15.5 mm x 6.35 (mm)

ORDERING DETAILS

Description	Part number
10QTVR1-CT	259951-000
10QTVR2-CT	391991-000
15QTVR1-CT	148345-000
15QTVR2-CT	040615-000
20QTVR1-CT	498703-000
20QTVR2-CT	988967-000

CONNECTION KITS

nVent 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.

GROUND-FAULT PROTECTION

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 nVent, 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 nVent RAYCHEM control and monitoring systems meet the ground-fault protection requirement.

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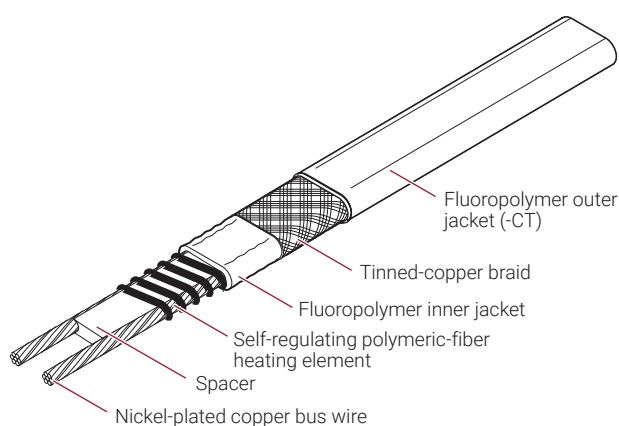


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HIGH-TEMPERATURE SELF-REGULATING HEATING CABLES ELECTRICAL FREEZE PROTECTION AND PROCESS- TEMPERATURE MAINTENANCE FOR BOTH NONHAZARDOUS AND HAZARDOUS LOCATIONS



Heating cable construction

PRODUCT OVERVIEW

The nVent RAYCHEM XTV family of self-regulating heating cables provides solutions for industrial freeze protection and process-temperature maintenance applications requiring high power output. XTV heating cables can withstand temperatures up to 482°F (250°C) and provide process temperature maintenance to 250°F (121°C).

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

The power output of self-regulating heating cable depends on the heating cable temperature, and can provide up to 20 W/ft at 50°F (10°C).

RAYCHEM XTV cables meet the requirements of the U.S. National Electrical Code and the Canadian Electrical Code. For additional information, contact your nVent representative or call (800) 545-6258.



APPLICATION

Area classification	Nonhazardous and hazardous locations
Traced surface type	Metal
Chemical resistance	Organic and aqueous inorganic chemicals and corrosives

SUPPLY VOLTAGE

XTV1	100–130 Vac
XTV2	200–277 Vac

TEMPERATURE RATING

Maximum maintain or continuous exposure temperature (power on)	250°F (121°C)
Maximum intermittent exposure temperature, 1000 hours (power on or off)	482°F (250°C)*
Minimum installation temperature	-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) **T2D:** 419°F (215°C) **T3:** 392°F (200°C)

Temperature ID numbers are consistent with North America National Electrical Codes.

20XTV1-CT-T2, 15XTV1-CT-T2 5XTV1-CT-T3, 5XTV2-CT-T3,
20XTV2-CT-T2 10XTV1-CT-T3, 10XTV2-CT-T3
15XTV2-CT-T3

Based on systems approach* T3-T6

* RAYCHEM XTV 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 nVent.

APPROVALS

IECEX IECEx BAS 06.0044X
Ex e IIC T* Gb
Ex tD A21 IP66 T**C

⁽¹⁾ Applications must be reviewed by the manufacturer.
^(*,**) For maximum surface temperature, see heating 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⁾



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

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

Zone Approvals



CLI, ZN1, AEx e II T3 (T2)



Ex e II T3 (T2)



09-IEEx-0005X
Ex e IIC T* Gb

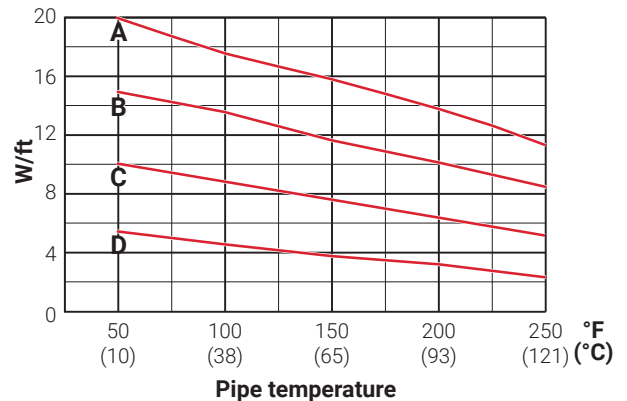
DESIGN AND INSTALLATION

For proper design and installation, use TraceCalc Pro design software or the design section of the nVent Products & Services Catalogue (H56550). Also, refer to the nVent (H57274). Literature is available via the nVent web site, nVent.com.

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

	Adjustment factors	
	Power output	Circuit length
208 V		
5XTV2	0.87	0.93
10XTV2	0.88	0.92
15XTV2	0.88	0.92
20XTV2	0.89	0.94
277 V		
5XTV2	1.07	1.12
10XTV2	1.08	1.09
15XTV2	1.08	1.12
20XTV2	1.07	1.12

A 20XTV-CT
B 15XTV-CT
C 10XTV-CT
D 5XTV-CT



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

MAXIMUM CIRCUIT LENGTHS BASED ON CIRCUIT BREAKER SIZES

	Ambient temperature at start-up		Maximum circuit length (in feet) per circuit breaker									
			120 V					240 V				
			15 A	20 A	30 A	40 A	50 A	15 A	20 A	30 A	40 A	50 A
5XTV-CT	50°F	(10°C)	180	240	360	385	385	360	480	720	765	765
	0°F	(-18°C)	160	210	320	385	385	315	420	625	765	765
	-20°F	(-29°C)	150	200	305	385	385	295	395	595	765	765
	-40°F	(-40°C)	145	195	290	385	385	285	380	570	760	765
10XTV-CT	50°F	(10°C)	110	145	220	270	270	220	295	440	540	540
	0°F	(-18°C)	95	130	195	260	270	195	260	385	515	540
	-20°F	(-29°C)	95	125	190	250	270	185	245	370	495	540
	-40°F	(-40°C)	90	120	180	240	270	175	235	355	470	540
15XTV-CT	50°F	(10°C)	75	100	150	200	220	150	200	300	400	445
	0°F	(-18°C)	65	90	135	180	220	130	175	265	355	440
	-20°F	(-29°C)	65	85	130	170	215	125	165	250	335	420
	-40°F	(-40°C)	60	80	125	165	205	120	160	240	320	405
20XTV-CT	50°F	(10°C)	60	80	120	160	190	115	150	230	305	380
	0°F	(-18°C)	50	70	105	140	180	100	135	205	275	345
	-20°F	(-29°C)	50	65	100	135	170	100	130	200	265	330
	-40°F	(-40°C)	50	65	100	130	165	95	125	190	255	320

PRODUCT CHARACTERISTICS

Minimum bend radius	@68°F (20°C): 0.5 in (12.7 mm)
Weight (lb per 10 ft, nominal)	1.1
Bus wire size	14 AWG
Outer jacket color	Red
Heating cable dimensions	0.46 in x 0.3 in (11.7 mm x 7.6 mm)

ORDERING DETAILS

Description	Part Number
5XTV1-CT-T3	P000001668
5XTV2-CT-T3	P000001669
10XTV1-CT-T3	P000001671
10XTV2-CT-T3	P000001672
15XTV1-CT-T2	P000001674
15XTV2-CT-T3	P000001675
20XTV1-CT-T2	P000001676
20XTV2-CT-T2	P000001677

CONNECTION KITS

nVent 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.

GROUND-FAULT PROTECTION

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 nVent, 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-fault protection requirement.

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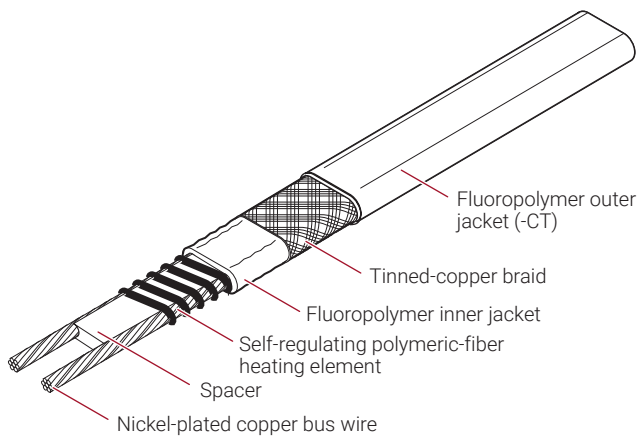


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HIGH-TEMPERATURE SELF-REGULATING HEATING CABLES ELECTRICAL FREEZE PROTECTION AND PROCESS- TEMPERATURE MAINTENANCE FOR BOTH NONHAZARDOUS AND HAZARDOUS LOCATIONS



Heating cable construction

PRODUCT OVERVIEW

The nVent RAYCHEM 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.

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



APPLICATION

Area classification	Nonhazardous and hazardous locations
Traced surface type	Metal
Chemical resistance	Organic and aqueous inorganic chemicals and corrosives

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)*
Minimum installation temperature	–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*

T3 -T6

* 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 nVent Industrial.

APPROVALS

IECEX

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

- (1) Applications must be reviewed by the manufacturer.
- (*,**) For maximum surface temperature, see heating 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⁾



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.

Zone Approvals



CL I, ZN1, AEx e II T3 (T2)



Ex e II T3 (T2)

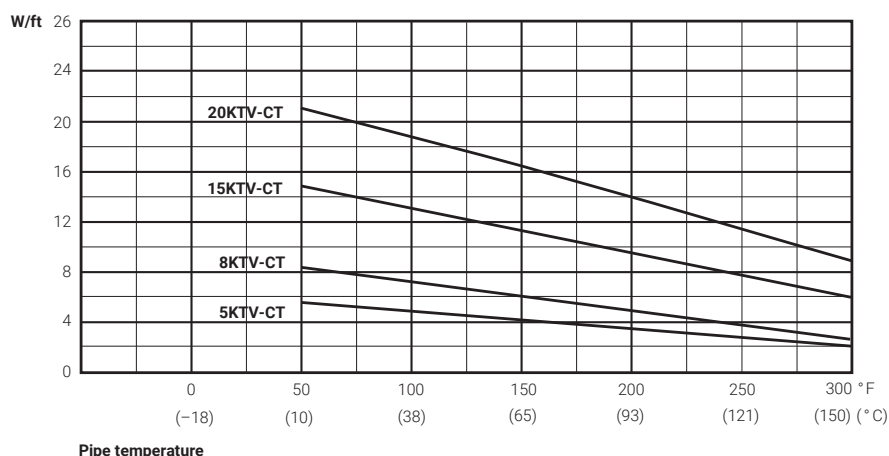
DESIGN AND INSTALLATION

For proper design and installation, use nVent RAYCHEM TraceCalc Pro design software or the design section of the Industrial Heat Tracing Products & Services Catalog (H56550). Also, refer to the and Maintenance Manual (H57274). Literature is available via the nVent web site, nVent.com

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

	Adjustment factors	
	Power output	Circuit length
208 V	0.78	0.94
277 V	1.19	1.06

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



MAXIMUM CIRCUIT LENGTHS BASED ON CIRCUIT BREAKER SIZES

	Ambient temperature at start-up	Maximum circuit length (in feet) per circuit breaker									
		120 V					240 V				
		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
	-40°F (-40°C)	105	140	205	275	300	215	285	430	570	600
15KTV	50°F (10°C)	80	105	160	215	220	160	215	320	425	440
	0°F (-18°C)	75	95	145	195	220	145	190	285	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	135	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 CHARACTERISTICS

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 color	Red
Heating cable dimensions	0.61 in x 0.36 in (13.3 mm x 7.6 mm)

ORDERING DETAILS

Description	Part Number
5KTV1-CT	P000001678
5KTV2-CT	P000001679
8KTV1-CT	P000001680
8KTV2-CT	P000001681
15KTV1-CT	P000001682
15KTV2-CT	P000001683
20KTV1-CT	P000001684
20KTV2-CT	P000001685

CONNECTION KITS

nVent 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.

GROUND-FAULT PROTECTION

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 nVent, 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 nVent RAYCHEM control and monitoring systems meet the ground-fault protection requirement.

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