

## HTR SELF-REGULATING HEATING CABLE

### Features & Benefits

- ▶ Ideal for freeze protection, roof and gutter de-icing, snow melting systems, and low temperature process maintenance up to 150°F (65°C)
- ▶ Automatically adjusts heat output based on surface temperature
- ▶ Safe to overlap and insulate
- ▶ Can be cut-to-length and terminated in the field
- ▶ Moisture, chemical, and flame resistant

### Specifications

**Maximum Continuous Maintenance Temperature:**  
150°F (65°C)

**Intermittent Exposure Temperature Range:**  
-40°F to 185°F (-40°C to 85°C)

**Supply Voltage:** 110-120 VAC or 208-277 VAC

**Nominal Power Output at 50°F (10°C):**  
- 3, 5, 8, 10, 12 watts/ft (10, 16, 26, 33, 39 watts/m)

- For 208 and 277 VAC, adjust watts shown for the 240 VAC cable using the Voltage Adjustment Factors chart

**Bus Wire Gauge:** 16 AWG

**Braid Resistance:** Tinned copper 0.0055 ohms/ft (0.0182 ohms/m)

#### T-Rating:

- T6: 3, 5, 8, 10 watts/ft (10, 16, 26, 33 watts/m)
- T5: 12 watts/ft (39 watts/m)

**Bend Radius:** 0.5 in (12 mm)

NOTE: Electrical equipment T-Rating codes define the maximum surface temperature that equipment will reach. It is used in hazardous (classified) area applications.

### Ordering Information

#### Part Number Matrix

**Watts/Ft:**  
3, 5, 8, 10, 12

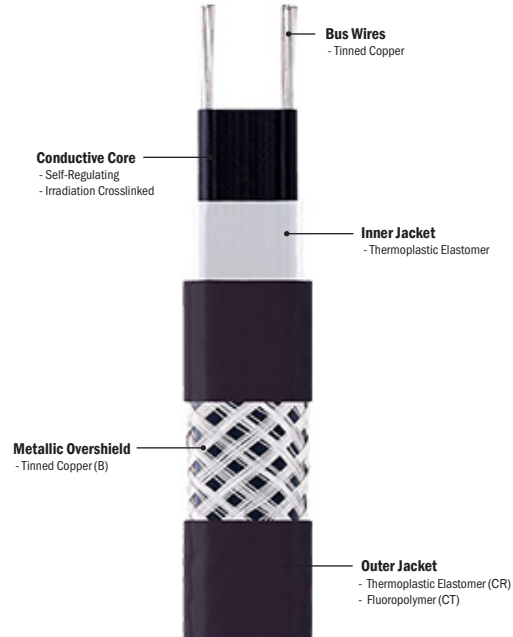
**Voltage:**  
1- (110-120 V), 2- (208-277 V)

**Outer Layer:**

**CR-** (Tinned Copper Metal Braid with Thermoplastic Elastomer Overjacket)  
**CT-** (Tinned Copper Metal Braid with Fluoropolymer Overjacket)

<b>3</b>	<b>HTR</b>	<b>1</b>	<b>CR</b>
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**Order Online at**  
**heatingelementsplus.com**



**Temperatures Up to 150°F (65°C)**



**Moisture & Chemical Resistant**



Ordinary Locations  
-CR Series Only  
Embedded de-icing and snow melting systems  
-CR Series only  
Roof and gutter de-icing and snow melting systems  
-CR Series only



Ordinary Locations  
Hazardous (Classified) Locations  
Class I, Division 2, Groups A, B, C, D  
Class II, Division 2, Groups E, F, G  
Class III



Approvals valid only when used with appropriate heating cable and installation accessories, and installed in accordance with all applicable instructions, codes, and regulations.

### Complete Your System with

#### Power Connection/Termination Kits



#### Monitor Light Kits



#### Insulation



#### Temperature Controls



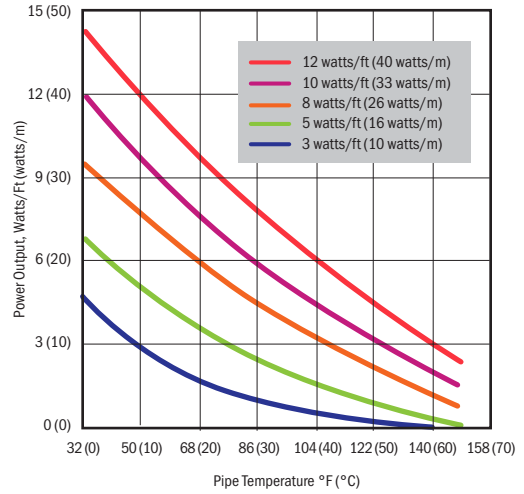
## HTR SELF-REGULATING HEATING CABLE

### Maximum Circuit Length in ft (m)

Heating Cable	Circuit Breaker Size	Start-up Temperature			
		50°F (10°C)	32°F (0°C)	-4°F (-20°C)	-40°F (-40°C)
<b>3HTR1</b>	10 amp	240 (73)	200 (61)	140 (43)	115 (35)
	15 amp	320 (98)	300 (91)	220 (67)	190 (58)
	20 amp	330 (101)	320 (98)	265 (81)	225 (69)
	30 amp	330 (101)	320 (98)	280 (85)	265 (81)
	40 amp	330 (101)	320 (98)	280 (85)	265 (81)
<b>3HTR2</b>	10 amp	485 (148)	396 (121)	275 (84)	232 (71)
	15 amp	643 (196)	606 (185)	436 (133)	377 (115)
	20 amp	660 (201)	643 (196)	530 (162)	449 (137)
	30 amp	660 (201)	643 (196)	557 (170)	530 (162)
	40 amp	660 (201)	643 (196)	557 (170)	530 (162)
<b>5HTR1</b>	10 amp	162 (49)	135 (41)	105 (32)	80 (24)
	15 amp	249 (76)	215 (66)	170 (52)	127 (39)
	20 amp	265 (81)	252 (77)	215 (66)	164 (50)
	30 amp	265 (81)	252 (77)	240 (73)	200 (61)
	40 amp	265 (81)	252 (77)	240 (73)	200 (61)
<b>5HTR2</b>	10 amp	324 (99)	269 (82)	209 (64)	160 (49)
	15 amp	498 (152)	429 (131)	337 (103)	255 (78)
	20 amp	530 (162)	505 (154)	433 (132)	328 (100)
	30 amp	530 (162)	505 (154)	480 (146)	400 (122)
	40 amp	530 (162)	505 (154)	480 (146)	400 (122)
<b>8HTR1</b>	10 amp	123 (38)	100 (31)	54 (17)	52 (16)
	15 amp	177 (54)	145 (44)	90 (27)	82 (25)
	20 amp	200 (61)	180 (55)	115 (35)	103 (31)
	30 amp	210 (64)	180 (55)	175 (53)	135 (41)
	40 amp	210 (64)	180 (55)	175 (53)	160 (49)
<b>8HTR2</b>	10 amp	246 (75)	203 (62)	108 (33)	104 (32)
	15 amp	354 (108)	291 (89)	183 (56)	164 (50)
	20 amp	406 (124)	360 (110)	229 (70)	206 (63)
	30 amp	420 (128)	360 (110)	350 (107)	275 (84)
	40 amp	420 (128)	360 (110)	350 (107)	320 (98)
<b>10HTR1</b>	10 amp	75 (23)	55 (17)	45 (14)	35 (11)
	15 amp	121 (37)	85 (26)	65 (20)	55 (17)
	20 amp	150 (46)	105 (32)	80 (24)	70 (21)
	30 amp	155 (47)	120 (37)	105 (32)	85 (26)
	40 amp	180 (55)	155 (47)	105 (32)	105 (32)
<b>10HTR2</b>	10 amp	147 (45)	111 (34)	85 (26)	68 (21)
	15 amp	242 (74)	177 (54)	131 (40)	114 (35)
	20 amp	295 (90)	216 (66)	164 (50)	141 (43)
	30 amp	315 (96)	246 (75)	215 (66)	170 (52)
	40 amp	360 (110)	315 (96)	215 (66)	215 (66)
<b>12HTR1</b>	10 amp	55 (17)	40 (12)	30 (9)	25 (8)
	15 amp	90 (27)	60 (18)	45 (14)	45 (14)
	20 amp	115 (35)	80 (24)	60 (18)	50 (15)
	30 amp	115 (35)	90 (27)	80 (24)	60 (18)
	40 amp	120 (37)	105 (32)	80 (24)	80 (24)
<b>12HTR2</b>	10 amp	111 (34)	78 (24)	59 (18)	49 (15)
	15 amp	183 (56)	124 (38)	91 (28)	85 (26)
	20 amp	229 (70)	160 (49)	124 (38)	98 (30)
	30 amp	229 (70)	180 (55)	158 (48)	120 (37)
	40 amp	240 (73)	210 (64)	158 (48)	158 (48)

Note: Special consideration must be given for the circuit breaker due to the high initial in-rush currents.

### Heat Output – Watts/Ft (watts/m)



### Outer Layer Options

Product Type	Description	Nominal Dimensions [thickness x width] in (mm)	Shipping Weight: 500 ft (152 m) spool lbs (kg)	Purpose
<b>HTR-CR</b>	Tinned Copper Metal Braid with Thermoplastic Elastomer Overjacket	0.23 x 0.50 (6.0 x 12.6)	46 (21)	Dry, Wet or Weak Chemical Environments
<b>HTR-CT</b>	Tinned Copper Metal Braid with Fluoropolymer Overjacket	0.21 x 0.47 (5.4 x 12.0)	44 (20)	Wet or Harsh Chemical Environments

### Voltage Adjustment Factors

Watt/ft Output Adjustment Factor		
Product Type	208 VAC	277 VAC
<b>3HTR2</b>	0.82	1.13
<b>5HTR2</b>	0.85	1.12
<b>8HTR2</b>	0.89	1.08
<b>10HTR2</b>	0.89	1.08
<b>12HTR2</b>	0.89	1.08

Max Circuit Length Adjustment Factor		
Product Type	208 VAC	277 VAC
<b>3HTR2</b>	0.96	1.08
<b>5HTR2</b>	0.94	1.09
<b>8HTR2</b>	0.92	1.11
<b>10HTR2</b>	0.92	1.11
<b>12HTR2</b>	0.92	1.11