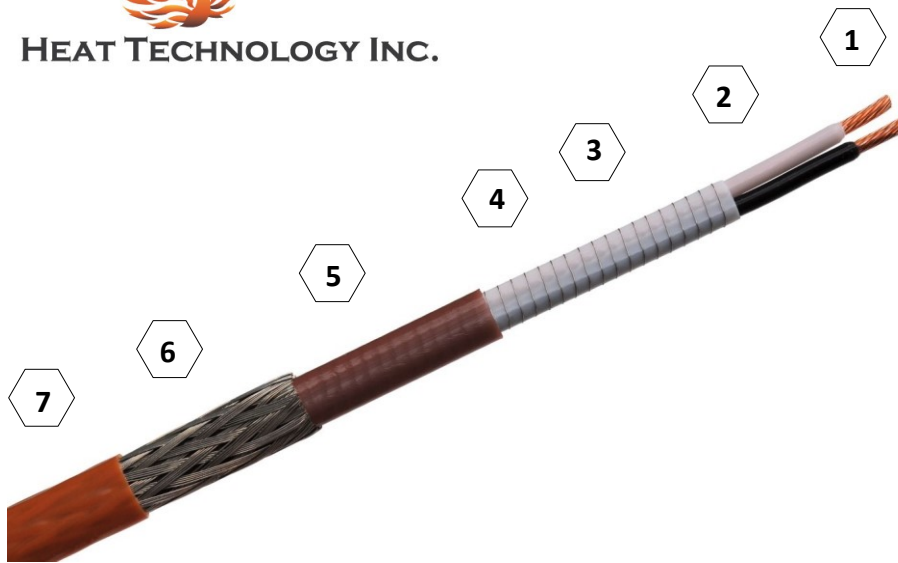




## Constant Wattage Low Temperature



### Construction

1. *16 AWG Buss Wires*
2. *10 mils Insulation*
3. *10 mils insulation*
4. *Nichrome Resistance Wire*
5. *22 mils Insulation*
6. *Grounding Braid*
7. *Optional 15 mil FEP Overjacket*

### Description

VGT-16 constant wattage heater cables are parallel-resistance electric heaters that provide constant power output along the entire length of cable. VGT-16 constant wattage heater cables are constructed of 16 AWG bright copper buss wires which allow for long circuit lengths and support maintenance temperatures up to 150°F. The fluoropolymer dielectric protects the cable from exposure temperatures up to 350°F when deenergized. This is suitable for process lines that are periodically steam purged (150 PSIG).

VGT-16 heater cables are perfectly safe in wet areas and provide excellent protection from impact and abrasion. The ground braid provides essential ground fault protection and the optional fluoropolymer overjacket protects the braid in heavily corrosive environments from organic and inorganic compounds. VGT-16 heater cables can be custom tailored to meet specific customer needs including, flexible power outputs up to 7 W/Ft., flexible service voltages up to 277V and broad choice in colors for identification or aesthetic purposes.

Unlike self-regulating heater cables, VGT-16 cables are not limited to predetermined voltages and do not exhibit inrush characteristics. VGT-16 cables typically last up to 4X as long as self-regulating heater cables and come with a standard 5 year warranty. VGT-16 heater cables can be cut to length in the field using standard electrical tools and should not be overlapped.

### Applications

VGT-16 constant wattage heater cables are excellent for all types of low-process temperature and freeze protection applications. VGT-16 heater cables can be used in a wide variety of applications including pipe freeze protection, de-icing of freezer doors, condensate drains, radiant heating. VGT-16 heater cables provide outstanding mechanical properties, ease of in-field fabrication and complete freeze protection at an affordable price.



HEAT TECHNOLOGY INC.

### Ordering Information

Example Configuration			FEP 7-277 (TC)(OJ)	
VGT-16	Wattage	Voltage	Braid/Jacket	Weight/1,000'
	1 - 7 W	110 - 120	(TC) = Tinned Copper	54 Lbs.
		220 - 277	(NPC) = Nickel Plated Copper	53 Lbs.
T Rating	T-3		(TC)(OJ) = Fluoropolymer Jacket	61 Lbs.
Note: For specific voltages, please specify exact VAC (i.e. 208, 220, 277 etc...)				

### Output at Alternate Voltages

Typical Heaters	110 VAC	120 VAC	208 VAC	240 VAC	277 VAC
VGT-16 3-1	2.52	3.00	9.01	-	-
VGT-16 5-1	4.20	5.00	-	-	-
VGT-16 7-1	5.88	7.00	-	-	-
VGT-16 3-2	-	.75	2.25	3.00	3.99
VGT-16 5-2	-	1.25	3.76	5.00	6.67
VGT-16 7-2	-	1.75	5.25	7.00	9.32
Note: Dash line indicates cable failure imminent or no appreciable output					



### Maximum Circuit Length

Sample Heaters	0 Ft.	50 Ft.	100 Ft.	150 Ft.	200 Ft.	250 Ft.	300 Ft.	400 Ft.	500 Ft.
VGT-16 3-1	3.00	2.98	2.94	2.86	2.77	2.65	2.52	2.20	1.90
VGT-16 5-1	5.00	4.98	4.83	4.63	4.37	4.08	3.75	-	-
VGT-16 7-2	7.00	6.92	6.68	6.30	5.83	5.29	4.74	-	-
VGT-16 3-2	3.00	3.00	2.99	2.98	2.96	2.94	2.91	2.85	2.77
VGT-16 7-2	7.00	6.98	6.92	6.81	6.68	6.50	6.30	5.83	-
VGT-16 3-277	3.00	3.00	2.99	2.99	2.98	2.96	2.95	2.91	2.86
VGT-16 7-277	7.00	6.95	6.95	6.88	6.79	6.68	6.55	6.23	5.85

Note: Dashed line indicates drop off exceeds output minimums or amperage exceeds conductor limitations