



## Constant Wattage Medium Temperature

### Construction

1. 14 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

TE-14 constant wattage heater cables are parallel-resistance electric heaters that provide constant power output along the entire length of cable. TE-14 constant wattage heater cables are constructed of 14 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 400°F when deenergized. This is suitable for process lines that are periodically steam purged (150 PSIG).

TE-14 heater cables are perfectly safe in wet areas and provide excellent protection from impact and abrasion. The ground braid provides essential grounding protection and the optional fluoropolymer overjacket protects the braid in heavily corrosive environments from organic and inorganic compounds. TE-14 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, TE-14 cables are not limited to predetermined voltages and do not exhibit inrush. TE-14 cables typically last up to 4X as long as self-regulating heater cables and come with a standard 10 year warranty. TE-14 heater cables can be cut to length in the field using standard electrical tools and should not be overlapped.

### Applications

EP-LT constant wattage heater cables are excellent for all types of low-process temperature and freeze protection applications. FEP-LT heater cables can be used in a wide variety of applications including frost heave prevention, de-icing of freezer doors, condensation drain lines, roof and gutter de-icing, snow-melting and radiant heating of floors. FEP-LT heater cables can also be used in domestic hot water applications. FEP-LT heater cables provide outstanding mechanical properties, ease of infield fabrication and complete freeze protection at an affordable price.



HEAT TECHNOLOGY INC.

### Ordering Information

Example Configuration			FEP 9-277 (TC)(OJ)	
FEP	Wattage	Voltage	Braid/Jacket	Weight/1,000'
	3 - 20 W	110 - 120	(TC) = Tinned Copper	80 Lbs.
		220 - 277	(NPC) = Nickel Plated Copper	79 Lbs.
T Rating	T-3	308 - 480	(TC)(OJ) = Fluoropolymer Jacket	90 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
PFCH 4-1	3.3	4.0	-	-	-
PFCH 6-1	5.0	6.0	-	-	-
PFCH 7-1	7.5	9.0	-	-	-
PFCH 4-2	-	-	3.0	4.0	5.3
PFCH 6-2	-	-	4.5	6.0	8.0
PFCH 7-2	-	-	5.2	7.0	9.3
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.
PFCH 4-1	4.00	3.98	3.93	3.86	3.75	3.62	3.47	3.13	-
PFCH 6-1	6.00	5.96	5.85	5.68	5.45	5.17	4.87	-	-
PFCH 8-2	8.00	7.93	7.74	7.44	7.04	-	-	-	-
PFCH 3-2	3.00	3.00	2.99	2.98	2.96	2.94	2.92	2.86	2.78
PFCH 6-2	6.00	5.99	5.96	5.92	5.78	5.68	5.58	5.45	5.18
PFCH 4-277	4.00	3.99	3.98	3.97	3.95	3.92	3.89	3.81	3.71
PFCH 8-277	8.00	7.98	7.94	7.88	7.80	7.69	7.57	7.26	6.90
Note: Dashed line indicates drop off exceeds output minimums or amperage exceeds conductor limitations									