



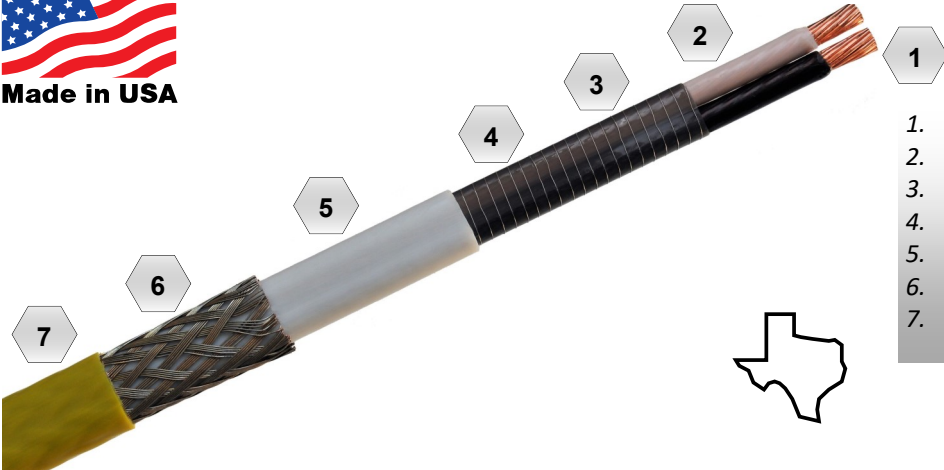
heat tracing specialists

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Romans 10:11 For whosoever believes on Him shall not be ashamed.

FEP CONSTANT WATTAGE



1. 12 AWG Buss Wires
2. 10 mils Insulation
3. 10 mils Insulation
4. Resistance Wire
5. 22 mils Insulation
6. Ground Braid
7. Optional 15 mil Overjacket



Heat Trace

FEP constant wattage heater cables are parallel-resistance electric heaters that provide constant power output along the entire length of cable. FEP constant wattage heater cables are constructed of 12 AWG bright copper buss wires which allow for long circuit lengths and support maintenance temperatures up to 200°F. The fluoropolymer dielectric protects the cable from exposure temperatures up to 400°F when de-energized. This is suitable for process pipes that are periodically steam purged (150PSIG).

FEP 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. FEP heater cables can be completely customized to meet specific customer needs including, flexible outputs up to 15 W/Ft. and service voltages to meet site specific needs without sacrificing performance.

Unlike self-regulating cables, constant wattage is not encumbered by inrush current and typically lasts up to 4X as long and comes with a standard 10 year warranty. FEP heater cables can be cut to length in the field using standard electrical tools and should not be overlapped.

FEP heater cables are ideally suited for all freeze protection and low to mid temperature process maintenance applications where the flow of fluid is essential. In areas requiring electric tracing such as, but not limited to: pipelines carrying chemicals, crude, lubricants, grease, water, fire suppression and de-icing of roofs and downspouts. FEP cables are also an ideal solution for frost heave prevention, natural gas compression, tank batteries, semiconductor, LNG, ammonia storage, agriculture, mining, power generation and so much more.

CSA:
 Ordinary locations 2(B, E) 3C
 Hazardous locations
 Class 1 Div. 2 (Groups A, B, C, D)
 Class 2 Div. 2 (Groups E, F, G)
 Class 3 Div. 2

UL Standard 515
 UL Standard 1673

C US

Note: For heater cable applications refer to National Electric Code Article 427 Fixed electric heating for pipelines and vessels.

Example Configuration		FEP 9-277 TC		
FEP	Wattage	Voltage	Braid/Jacket	Weight/1,000'
	1-15	1=120V	TC=Tinned Copper	80 Lbs.
		2=240V	NP=Nickel Plated Copper	79 Lbs.
T Rating	T-3	4=480V	SS=Stainless Steel	80 Lbs.
			TCOJ=Fluoropolymer Jacket	90 Lbs.


Note: For other voltages not listed above (i.e. 208, 220, 277) please specify full voltage when ordering. Maximum permissible watt density, 15 W/Ft.


Typical Heaters	110 VAC	120 VAC	208 VAC	240 VAC	277 VAC
FEP 4-1	3.3	4.0	12.0	16.0	—
FEP 6-1	5.0	6.0	18.0	—	—
FEP 9-1	7.5	9.0	—	—	—
FEP 10-2	2.1	2.5	7.5	10.0	13.3
FEP 15-2	3.1	3.8	11.3	15.0	20.0

Note: Dashed lined indicates cable failure imminent.

PL-1	Power Connection Kit
EC-1CW	End Termination Kit
ESK-12	Inline Splice Kit
TSK-12	Tee Splice Kit
AL-1	Aluminum Tape
FG-1	Fiberglass Tape
TD-1	Snap Action Thermostat
TF115	Ambient Sensing Thermostat
TRF115	Line Sensing Thermostat

Note: Not all accessories are listed. See catalog for additional listings.

 To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with National Electric Code (NEC) Article 427.22 requirements, agency certifications, and local codes, ground-fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection. Ground fault protection is the responsibility of the end user and should be installed by a certified electrician.

 It is highly recommended that all heat trace systems be connected to a control device to limit inrush potential and circuit breaker issues. Control devices also extend the life of all heat trace systems.

Sample Heaters	0 Ft.	50 Ft.	100 Ft.	150 Ft.	200 Ft.	250 Ft.	300 Ft.	400 Ft.	500 Ft.
FEP 3-1	3.0	2.99	2.98	2.94	2.90	2.85	2.79	2.64	2.46
FEP 5-1	5.0	4.98	4.93	4.84	4.73	4.59	4.42	4.04	3.62
FEP 3-2	3.0	3.0	3.0	2.99	2.98	2.96	2.95	2.90	2.85
FEP 8-2	8.0	7.99	7.96	7.90	7.83	7.73	7.63	7.35	7.03
FEP 15-2	15.0	14.96	14.84	14.65	14.39	14.08	13.68	—	—
FEP 4-277	4.0	3.99	3.99	3.98	3.96	3.95	3.92	3.87	3.80
FEP 8-277	8.0	7.98	7.96	7.92	7.86	7.79	7.71	7.50	7.25

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