

electric heaters that provide constant power output along the entire length of cable. FEP-M 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 400°F when deenergized. This is suitable for process lines that are periodically steam purged (150 PSIG).

FEP-M 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-M 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, FEP-M cables are not limited to predetermined voltages and do not exhibit inrush characteristics. FEP-M cables typically last up to 4X as long as self-regulating heater cables and come with a standard 10 year warranty. FEP-M heater cables can be cut to length in the field using standard electrical tools and should not be overlapped. FEP-M constant wattage heater cables are excellent for all types of low-process temperature and freeze protection applications. FEP-M heater cables can be used in a wide variety of applications including pipe freeze protection, de-icing of freezer doors, condensate drains, radiant heating. FEP-M heater cables provide outstanding mechanical properties, ease of in-field fabrication and complete freeze protection at an affordable price.

 Approvals

 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

 Note: For heater cable applications refer to National Electric Code Article 427

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Ordering Information

Example Configuration			FEP-M 7-277 TCOJ	and the	
FEP-M	Wattage	Voltage	Braid/Jacket	Weight/1,000'	
	1-7	1=120V	TC=Tinned Copper	54 Lbs.	
		2=240V	NP=Nickel Plated Copper	53 Lbs.	
T Rating	T-3		SS=Stainless Steel	54 Lbs.	
			TCOJ=Fluoropolymer Jacket	61 Lbs.	

Note: For other voltages not listed above (i.e. 208, 220, 277) please specify full voltage when ordering. Maximum permissible watt density, 7 W/Ft.

	ges						
Typical Heaters	110 VAC	120 VAC	208 VAC	240 VAC	277 VAC		
FEP-M 3-1	2.52	3.00	9.01	_	_		
FEP-M 5-1	4.20	5.00	-	-	_		
FEP-M 7-1	5.88	7.00	_	_	_		
FEP-M 3-2	-37)	0.75	2.25	3.00	3.99		
FEP-M 5-2	- 37	1.25	3.76	5.00	6.67		
FEP-M 7-2		1.75	5.25	7.00	9.32		
lote: Dashed lined indicates cable failure imminent or no appreciable output.							

Accessories

PL-1M	Power Connection Kit				
EC-M	End Termination Kit				
ESK-14	Inline Splice Kit				
TSK-14	Tee Splice Kit				
AL-1	Aluminum Tape				
FG-1	Fiberglass Tape				
TD-1	Snap Action Thermostat				
TF115	Ambient Sensing Thermostat				
TRF115	Line Sensing Thermostat				

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

Widximum Circuit Length									
Sample H <mark>eaters</mark>	0 Ft.	50 Ft.	100 Ft.	150 Ft.	200 Ft.	250 Ft.	300 Ft.	400 Ft.	500 Ft.
FEP-M <mark>3-1</mark>	3.00	2.98	2.94	2.86	2.77	2.65	2.52	2.20	1.90
FEP-M 5-1	5.00	4.98	4.83	4.63	4.37	4.08	3.75	_	_
FEP-M 7-1	7.00	6.92	6.68	6.30	5.83	5.29	4.74	_	_
FEP-M 3-2	3.00	3.00	2.99	2.98	2.96	2.94	2.91	2.85	2.77
FEP-M 7-2	7.00	6.98	6.92	6.81	6.68	6.50	6.30	5.83	_
FEP-M 3-277	3.00	3.00	2.99	2.99	2.98	2.96	2.95	2.91	2.86
FEP-M 7-277	7.00	6.95	6.95	6.88	6.79	6.68	6.55	6.23	5.85

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

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