



& ASSOCIATES, INC.

heat tracing specialists

## FLV

### LOW VOLT SELF-REGULATING



1. 16 AWG Buss Wires
2. Conductive Core
3. Polyolefin Jacket
4. Tinned Copper Braid
5. Standard Overjacket

Heat Trace



#### Description

FLV low voltage self-regulating heater cables are designed to operate off low voltage power sources. FLV heater cable can be used for freeze protection and low process temperature in various applications.

FLV is ATEX approved for use in class 1 division 2 areas. FLV heater cables can maintain temperatures up to 150°F and have an intermittent exposure temperature of 185°F when de-energized. The standard thermoplastic R jacket offers corrosion resistance against certain inorganic chemicals, while the fluoropolymer T jacket protects the cable from both organic and inorganic chemicals. Either jacket offers exceptional protection against impact damage, abrasion and wet environments. As with all parallel type heater cables FLV can be cut to length in the field using standard electrical tools and will not overheat or burnout when overlapped.

#### Applications

FLV self-regulating heater cables provide freeze protection and low temperature process for fluid transport and storage systems. FLV self-regulating heater cables are also ideal for low surface area roof & gutter, snow-melting/de-icing and various other applications where normal power requirements are inaccessible due to location.

#### Approvals

##### ATEX:

Certificates:

SIRA 12ATEX3113

SIRA 12ATEX3115



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

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## Ordering Information

Example Configuration		FLV 5-1 R		
FLV	Wattage	Voltage	Braid/Jacket	Weight/1,000'
	3, 5, 9*	1=12V	R=Rubber Jacket	67 Lbs.
T Rating	T-6	2=24V	T=Fluoropolymer Jacket	74 Lbs.

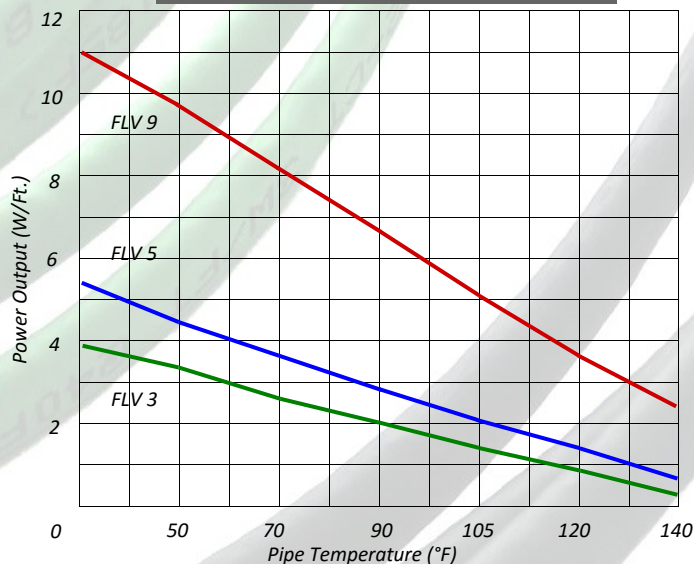
\* FLV 9 used for special applications only. For details of circuit lengths and startup currents contact TAD & Associates, Inc. T rating per 1999 NEC Table 500-5(d).

## Accessories

<b>PL-1SR</b>	Power Connection Kit
<b>EC-1SR</b>	End Termination Kit
<b>ESK-SR</b>	Inline Splice Kit (14AWG)
<b>TSK-SR</b>	Tee Splice Kit (14AWG)
<b>AL-1</b>	Aluminum Tape
<b>FG-1</b>	Fiberglass Tape
<b>TD-1</b>	Snap Action Thermostat
<b>TF115</b>	Ambient Sensing Thermostat
<b>TRF115</b>	Line Sensing Thermostat

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

## Thermal Output Ratings



## Maximum Circuit Length vs. Breaker Sizing

Typical Heaters	40°F Start-Up (Ft.)				0°F Start-Up (Ft.)				-40°F Start-Up (Ft.)			
	6A	10A	16A	20A	6A	10A	16A	20A	6A	10A	16A	20A
FLV 3-12	13	23	32	—	9	16	26	—	6	13	19	—
FLV 3-24	26	46	65	—	19	32	52	—	13	26	39	—
FLV 5-12	9	16	26	—	9	13	23	—	6	13	19	—
FLV 5-24	19	32	52	—	19	26	45	—	13	26	39	—
FLV 9-12	—	—	—	—	—	—	—	—	—	—	—	—
FLV 9-24	—	—	—	—	—	—	—	—	—	—	—	—