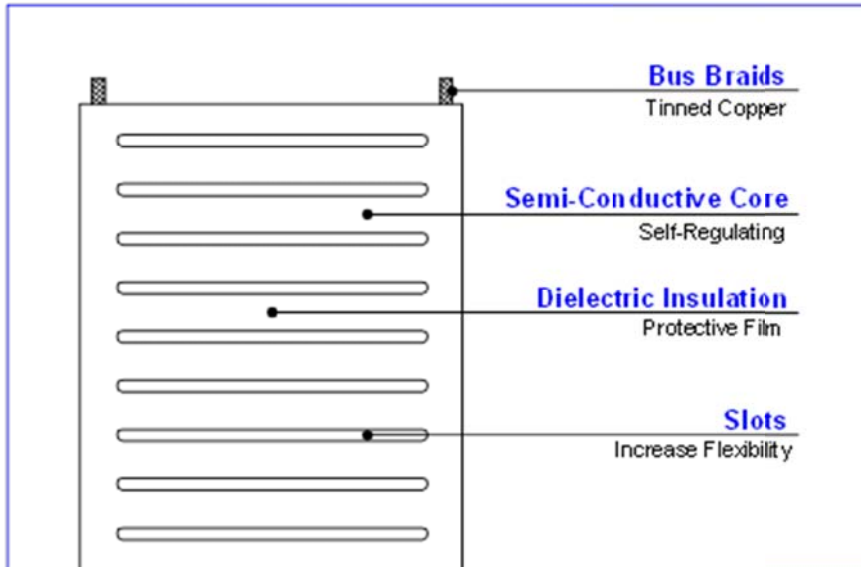


### Construction...



The EP-30-25W-24V STEP® Heating Element is a patented low-voltage, strong, thin and flat heater. The heating element is constructed of two parallel bus braids embedded in a semi-conductive polymeric material.

A polymeric dielectric film is applied at the time of manufacture so that the film is thermally fused to the heating material. This creates an element that features a solid and homogeneous construction that will not separate from thermal cycling or physical flexing.

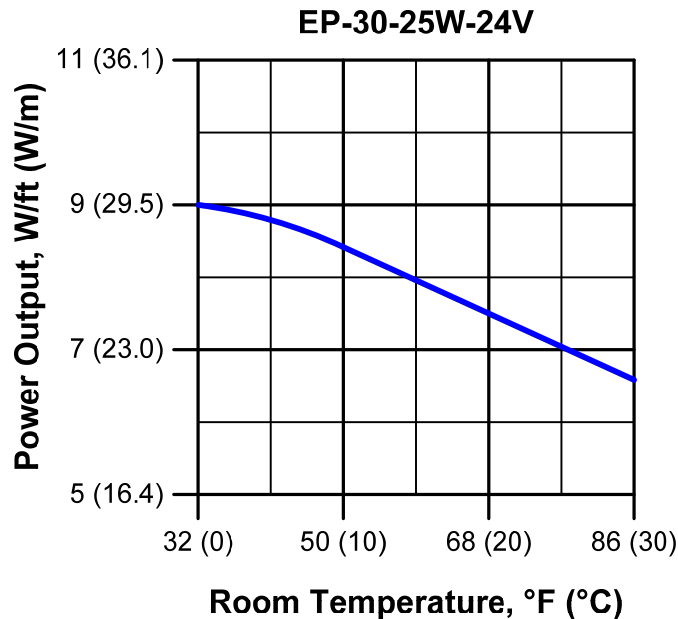
### Applications...

Radiant heat systems                      See General Data Sheet

### Product Specifications...

Heating element type	Positive Temperature Coefficient (PTC) semi-conductive polymer
Dimensions	Width: 12" (305 mm) Thickness: 3/64" (1,2 mm) Length: cut to order with a 174 ft (53 m) maximum shipping spool length Weight: 0.23 lb/ft (0,34 kg/m)
Output wattage	7.8 W/ft (25,5 W/m) @ 68°F (20°C) – see power output curve
Supply voltage	24V AC or DC
Bus braid	15 AWG tinned copper flat braid
Dielectric insulation	Protective film thermally bonded to heating element
Minimum bending radius	3/32" (2.5mm) @ 32°F (0°C)
Maximum exposure temperature	176°F (80°C)
Chemical Compatibility	Do not use in conjunction with aggressive construction glues and adhesives or with asphalt or butyl sealants / membranes

## Power Output Curve...



## Electrical Data...

Amperage draw @ 68°F (20°C) when powered at 24V	0.33 A/ft (1,07A/m)
Nominal resistance @ 68°F (20°C)	74 Ω/ft (23 Ω/m)
<b>Element length:</b>	
Maximum element length per circuit in the power supply (450W)	57 ft (17,6 m)
<b>Power Source:</b>	
SELV (safety extra low voltage) power supply EPI-LX-R-250W / -500W / -1000W / -1500W PV solar panels	
<b>Connection:</b>	
Recommended tinned copper connectors and sealant tape Crimped to tinned copper lead wires using recommended tool	

## Approvals / Certifications...



Conforms to UL 1693 – Third Edition  
Conforms to UL 5085-1 & 2 and CSA-C22.2 No. 66.1 & 2-06



Conforms to EN 60335.2-96-2009  
Conforms to EN 61558-2-2:2007

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