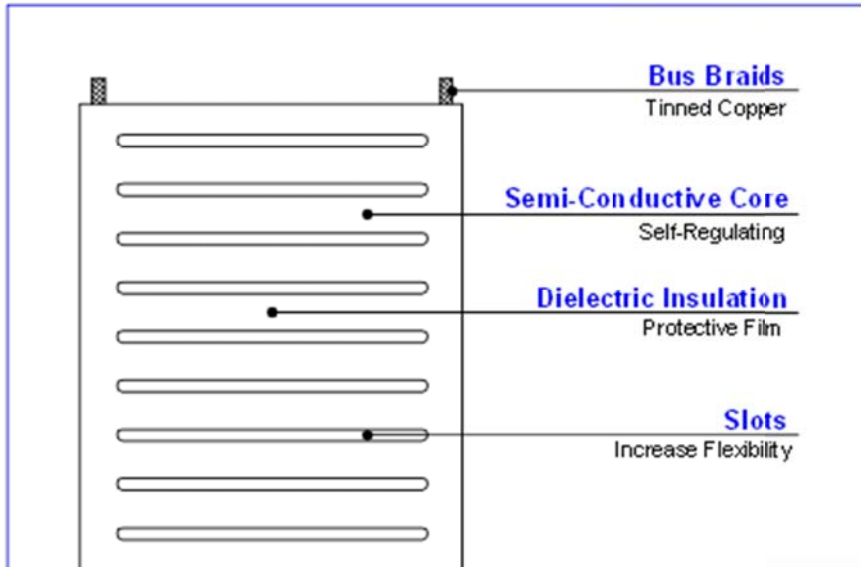


### Construction...



The EP-7-30W-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: 3" (230 mm) Thickness: 3/64" (1,2 mm) Length: cut to order with a 174 ft (53 m) maximum shipping spool length Weight: 0.08 lb/ft (0,12 kg/m)
Output wattage	9.1 W/ft (30 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	0.38 A/ft (1,24A/m)
---	---------------------

---

Nominal resistance @ 68°F (20°C)	63 Ω/ft (19 Ω/m)
----------------------------------	------------------

#### Element length:

---

Maximum element length per circuit in the power supply (450W)	49 ft (15 m)
---	--------------

#### Power Source:

---

SELV (safety extra low voltage) power supply EPI-LX-R-250W / -500W / -1000W / -1500W

---

PV solar panels

#### Connection:

---

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

**ELECTRO**  
plastics, inc.

11147 Dorsett Road  
Maryland Heights, MO 63043, USA  
Tel.: 1-314-222-9090  
E-mail: [info@electroplastics.com](mailto:info@electroplastics.com)

Electro Plastics, Inc. makes no representations or warranties, either expressed or implied, with respect to the contents of this publication or the products that it describes, and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. Electro Plastics, Inc. reserves the right to revise this publication, and to make changes and improvements to the products described in the publication, without the obligation of Electro Plastics, Inc. to notify any person or organization of such revisions, changes or improvements.