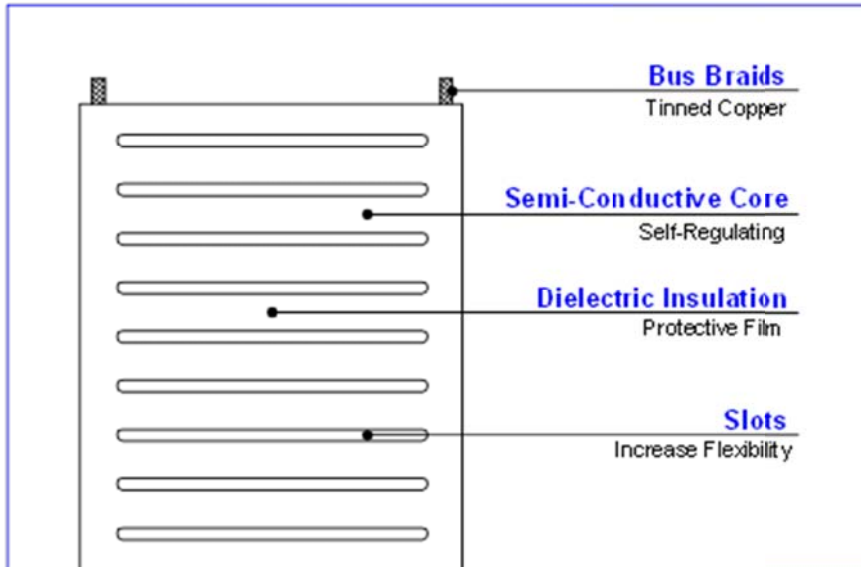


Construction...



The EP-30-29W-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.

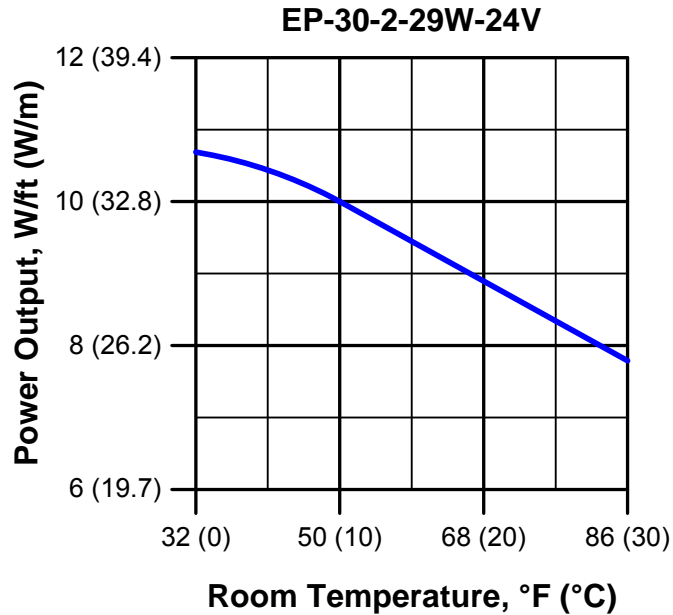
Applications...

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 | 9 W/ft (29,5 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 | 0.38 A/ft (1,25A/m) |
| Nominal resistance @ 68°F (20°C) | 64 Ω/ft (19 Ω/m) |
| Element length: | |
| Maximum element length per circuit in the power supply (450W) | 50 ft (15,2 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

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.