

Prop and Scenery Lights, LLC
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Product Specification Sheet
Flame Effects Lights (FEL) with
(EEL1) Cable Socket
P/N: EEL1-FEL



FEL Flame Effects Light Characteristics:

- Voltage 9-10.5 volts DC, (Max. intermittent Peak 12.0 Volts DC / Min. 7 volts DC), Voltage dimmable and PWM dimmable. The FEL can be operated continuously at 12-volt DC when used with the FEC1 Flicker Effects Control in flicker mode as the average voltage to the FEL will be reduced below 12 volts DC.
- Wattage: 1 watt at 10.5 volts DC
- Life hours Ref.: 20,000 Hrs at 9 VDC, 10,000 Hrs at 10.5 VDC
- LEDs per light: 8 (2 LEDs in each of four 90° PCB structure quadrants)
- Color temperature: 1,775 Kelvin nominal with a color rendering index of 93 Typ. CRI
- CIE1931 color coordinates: x=0.5390 / y=0.4015 Typ.
- Lumens Ref.: 9.0 VDC = 22 Lumens / 10.5 VDC = 31 Lumens / 12.0 VDC = 41 Lumens
- Lux (side view of light): 9.0 VDC at 3 feet = 4 Lux / 12 VDC at 3 feet = 7 Lux
- Lux (light in white reflector cup with top view of light): 9.0 VDC at 3 feet = 5 Lux / 12 VDC at 3 feet = 9.5 Lux

EEL1 Socket Cable Characteristics and Notes:

1) The EEL1 cable socket: is designed for mounting into soft materials, foam, wood, and plastics. The EEL's cable socket fits into a mounting hole from the material's front side. The tapered fit of the socket body locks it into place, and a front 5/8" diameter flange provides an insertion stop. Lock ribs on the taper provide for anti-rotation of the socket in the material. The EEL1 cable socket light assembly is optimized for 6 lb. HDU density foam board when an 11mm (7/16") hole is used; though it can be mounted into higher density boards with the hole size increased slightly to reduce insertion pressure, or with lower density foam board reducing the hole diameter for a tighter grip.

2) Mounting hole: in HDU (High Density Urethane) rigid foam board, make the hole 11mm-0.25/+0.50 (7/16" Ref. / 0.4375" Ref.) depending on density and grip desired. For harder materials a 12mm (0.47") hole can be used with adhesive or resin to retain the socket. The smaller taper end of the socket has slots that can be used for resin back filling for additional retention in material over 25MM (1") thick. In most application using HDU as the mounting material, the press fit grip from the socket is sufficient to retain it. The socket taper shape is 12mm (0.47") Dia. Typ. down to 9.7mm (0.38") Dia. Typ. over a 33mm length.

4) Socket Cable assembly: The overall cable length from top of lamp to bottom of barrel connector is 279mm mm (11" Typ.) Typ. The cable end is equipped with a female DC barrel connector jack 2.1mm X 5.5mm. The jack diameter is 10.55mm (0.415") Typ. The FEL Flame Effects Light, Bi-Pin bulb is removable from the socket for replacement.

5) Handling and storage: see Application Note AN-1706 for Static control for electronics and LED lights used in props, scenery and theatrical costumes.