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Pico-EZmate™ Harness for Integrated LED Arrays

68801 Pico-EZmate™ Harness

Pico-EZmate™ Harness Assemblies offer an extreme low-profile design for simple and reliable solderless connections to LED Arrays

Molex Pico-EZmate™ harnesses provide the lowest profile interconnect solution in the Solid State Lighting industry when used with and integrated header feature in select LED arrays. Utilizing proven Pico-EZmate connector technology, the harnesses provide a fast, reliable and extreme low-profile connection.

The Pico-EZmate™ harness system minimizes handling of the arrays during installation, greatly reducing the possibility of damaging the LED. Pico-EZmate™ harnesses will be offered in three wire gauge configurations and three lengths for a range of initial harness options.

Additional harness designs can be requested. For more information or to contact Molex with specific questions, visit: www.molex.com/link/picoezmateharnesses.html

Pico-EZmate™ Harness (Series 68801)

Features and Benefits

Solderless connection design	Minimizes handling of arrays during installation, greatly reducing the possibility of damage. Eliminates specialized operator training and solder-joint inspection
Vertical snap-to-mate connection	Enables a fast, easy and reliable connection to the LED array holder
Low-profile 1.40mm connector height	Provides a slim design for space-limited applications. Minimizes risk of affecting light output
Positive-lock latching feature	Provides an audible click to confirm a connection
Gold-plated contacts	Highly reliable, low contact resistance
Halogen-free UL94V-0	Meets RoHS requirements and is UL-flammability rated
Multiple wire gauges (28 to 18 AWG, including fused combinations) and length options (152.50, 305.00 and 458.00mm) available	Provides design flexibility
Proven Pico-EZmate™ receptacle design used in existing harnesses	Utilizes technology proven for mobile applications

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Specifications

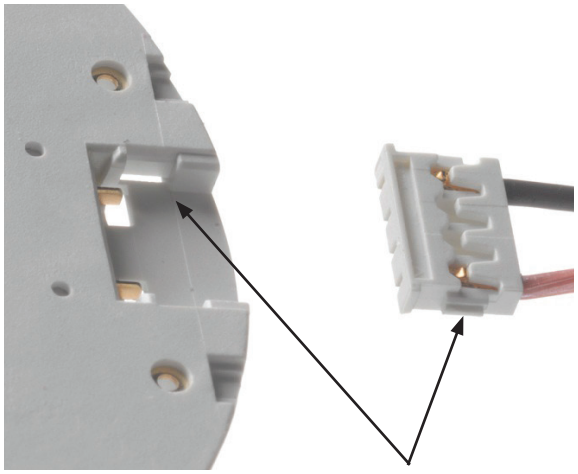
Reference Information
Packaging: Bags inside box
UL File No.:
UL1977, UL Wiring Harness Program
Mates With: Molex Pico-EZmate™
integral header on Bridgelux* Vero†
LED Array
RoHS: Yes
Halogen Free: Yes

Electrical
Voltage (max.): 130V
Current (max.): 2.8A‡
Contact Resistance: 20 milliohms
Dielectric Withstanding Voltage: 500V AC
Insulation Resistance: 100 Megohms

Mechanical
Contact Retention to Housing: 4N
Mating Force (max.): 18N initial
Unmating Force (min.): 4N initial
Durability: 10 unmating cycles
Not designed for horizontal mating/
unmating§

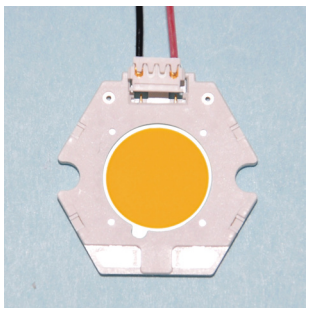
Physical
Housing: High-temperature white Nylon
Contact: High performance copper alloy
Plating:
Contact Area — Gold
Underplating — Nickel
Operating Temperature: -25 to +105°C

Features

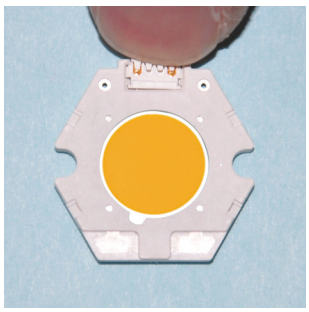


Vertical snap-to-mate connection feature

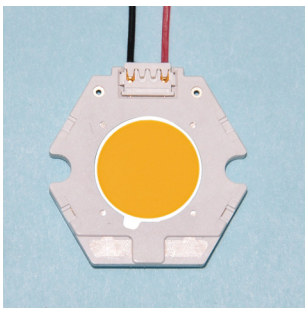
Easy Two-Step Mating Process



Step 1. Align



Step 2. Push straight down to connect



Completed Array and Harness Assembly (shown without LED)

* Bridgelux and †Vero are registered trademarks of Bridgelux Inc.
‡ Pending final testing and qualification of harness assembly; improved voltage result expected.
§ See Application Specification published at the part number level on Molex.com

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Applications

All general illumination applications
- Downlighting/retail
  - Track
  - Pendants
  - Linear
- Architectural/hospitality
  - Decorative
  - Functional
  - Emergency lighting

Area lighting
- Roadway
- Parking Lots
- Wall Packs

Ordering Information

OrderNo.	Bridgelux* Vero† Arrays	Harness Length (mm)	AWG
68801-4146	Vero† 10 Vero† 13 Vero† 18 Vero† 29	152.50	28AWG pigtails, strip and retain
68801-4147		305.00	
68801-4227		458.00	
68801-4084		152.50	28 AWG fused to 20 AWG pigtails
68801-4085		305.00	
68801-4228		458.00	
68801-4226		152.50	28 AWG fused to 18 AWG pigtails
68801-4225		305.00	
68801-4229		458.00	

www.molex.com/link/picoezmateharnesses.html

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