Lite-Trap SMT Wire-to-Board Connector System
Standard, Mini, Bottom and Vertical-Entry Types

Ideal for thin LED lighting-module applications, Molex’s Lite-Trap SMT wire-to-board connectors offer easy wire removability and low-profile top-and-bottom entry styles for reduced shadowing

Features and Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low-profile top-and-bottom entry styles</td>
<td>Provide reduced shadowing effects for LED applications</td>
</tr>
<tr>
<td>User-friendly push-button latch</td>
<td>Ensures easy wire extraction</td>
</tr>
<tr>
<td>Low wire insertion and high wire retention forces</td>
<td>Enables easy wire insertion; provides secure contact retention</td>
</tr>
<tr>
<td>Long wire insulation design</td>
<td>Provides stable wire placement for additional contact assurance</td>
</tr>
<tr>
<td>Compact industry-standard PCB pattern layout</td>
<td>Saves space and is drop-in compatible with certain competitive products</td>
</tr>
<tr>
<td>Wire stopper feature</td>
<td>Facilitates correct wire insertion depth placement</td>
</tr>
<tr>
<td>Dual-contact gate-style terminal design</td>
<td>Provides secure electrical contact and high wire-retention force</td>
</tr>
</tbody>
</table>

Applications

Lighting
- Down Light
- Strip Light

Factory Automation Equipment

Consumer Electronics

Any application requiring an easy-to-use wire insertion/extraction method

LED Down Lighting
Security System Controller
LED Strip Lighting
**Lite-Trap SMT Wire-to-Board Connector System**

*Standard, Mini, Bottom and Vertical-Entry Types*

**Specifications**

**REFERENCE INFORMATION**
- Packaging: Embossed Tape
- Use With: Solid or stranded wire
- Designed In: Millimeters
- RoHS: Yes
- Halogen Free: Yes
- Glow Wire Compliant: No

**ELECTRICAL**
- Voltage (max.):
  - Standard: 300V
  - Mini: 160V
  - Bottom-Entry: 320V
  - Vertical-Entry: 431V
- Current (max.): 9A (Mini, Vertical-Entry: 3.0A)
- Contact Resistance: 10 milliohms max.
- Dielectric Withstanding Voltage: 1,600V AC;
  - Mini: 1,320V AC; Bottom Entry: 1,640V AC
- Insulation Resistance: 1,000 Megaohms min.

**MECHANICAL**
- Wire Insertion Force: 10.0N max.
  - (Vertical-Entry: 20.0N max.)
- Wire Retention Force:
  - Standard:
    - AWG 24-28: 28N min.
    - AWG 18-22: 50N min.
  - Mini:
    - AWG 22: 30N min.
    - AWG 24: 20N min.
    - AWG 26: 8N min.
  - Bottom-Entry:
    - AWG 18-22: 50N min.
    - AWG 24: 28N min.
  - Vertical-Entry:
    - AWG 18: 50N min.
- Durability (min.): 25 cycles

**PHYSICAL**
- Housing: LCP, UL 94V-0
- Contact: Copper Alloy

**PLATING**
- Contact Area: Tin
- Solder Tail Area: Tin
- Operating Temperature:
  - Mini/Vertical-Entry: -40 to 130°C
  - Standard/Bottom Entry: -60 to 130°C

**Additional Product Features**

**Wire Stopper Feature For Wire Protection**

A wire stopper feature built into the mold design helps identify when the wire has been fully inserted to facilitate wire alignment and avoid wire damage.

**Less Shadowing With Bottom-Entry Type**

The bottom-entry type Lite-Trap connector (above left) has less housing material exposed above the LED panel compared to top-entry types (above right), which reduces shadowing.

**Grooved Solder Tail Design to secure strong PCB retention force**

The vertical-entry type Lite-Trap can create the combination of high voltage and current together.

**Ordering Information**

<table>
<thead>
<tr>
<th>Type</th>
<th>Order No.</th>
<th>Circuit Size</th>
<th>AWG</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini</td>
<td>104238-0110</td>
<td>1</td>
<td>22 to 26 (Solid)</td>
<td>3.0A</td>
</tr>
<tr>
<td></td>
<td>104238-0210</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>104188-0110</td>
<td>1</td>
<td>18 to 24 (Solid)</td>
<td>9.0A</td>
</tr>
<tr>
<td></td>
<td>104188-0210</td>
<td>2</td>
<td>20 to 22 (Stranded)</td>
<td></td>
</tr>
<tr>
<td>Bottom-Entry</td>
<td>104266-0110</td>
<td>1</td>
<td>18 to 24 (Solid)</td>
<td>9.0A</td>
</tr>
<tr>
<td></td>
<td>104266-0210</td>
<td>2</td>
<td>20 to 24 (Stranded)</td>
<td></td>
</tr>
<tr>
<td>Vertical-Entry</td>
<td>202394-0110</td>
<td>1</td>
<td>18 (Solid)</td>
<td>3.0A</td>
</tr>
</tbody>
</table>

www.molex.com/link/litetraps.html

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