

# Lite-Trap SMT Wire-to-Board Connector System

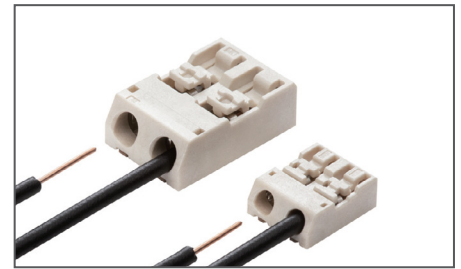
Standard, Mini, Bottom and Vertical-Entry Types



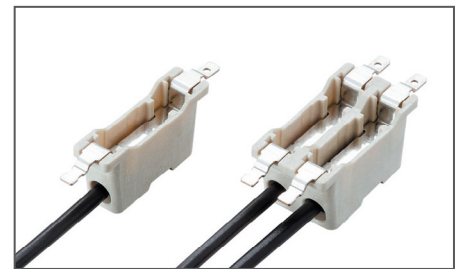
**Ideal for thin LED lighting-module applications, Molex's Lite-Trap SMT wire-to-board connectors offer easy wire removability and low-profile top-and-bottom entry styles for reduced shadowing**

## Features and Benefits

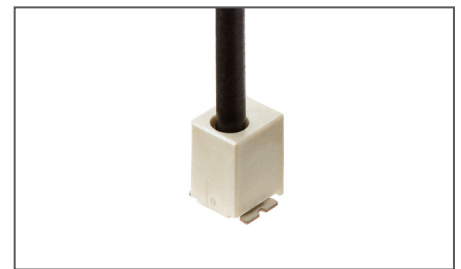
Low-profile top-and-bottom entry styles	Provide reduced shadowing effects for LED applications
User-friendly push-button latch	Ensures easy wire extraction
Low wire insertion and high wire retention forces	Enables easy wire insertion; provides secure contact retention
Long wire insulation design	Provides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



Standard and Mini Lite-Trap connectors



Bottom-Entry Lite-Trap Connector



Vertical-Entry Lite-Trap Connector

## 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

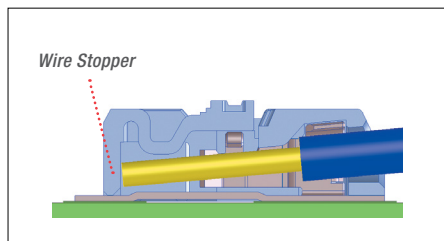
Housing: LCP, UL 94V-0  
 Contact: Copper Alloy

### PLATING

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

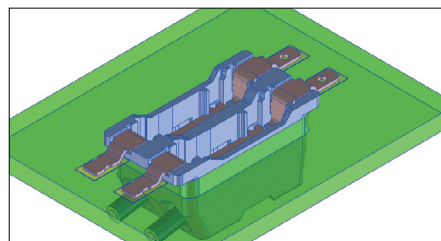
## Additional Product Features

### Wire Stopper Feature For Wire Protection



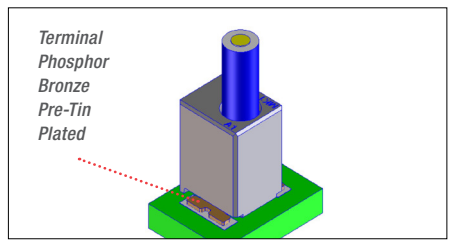
A wire stopper feature built into the mold design helps identify when the wire has been fully inserted to facilitate wire alignment and avoid wire damage

### 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

Type	Order No.	Circuit Size	AWG	Current
Mini	<a href="#">104238-0110</a>	1	22 to 26 (Solid)	3.0A
	<a href="#">104238-0210</a>	2		
Standard	<a href="#">104188-0110</a>	1	18 to 24 (Solid) 20 to 22 (Stranded)	9.0A
	<a href="#">104188-0210</a>	2		
Bottom-Entry	<a href="#">104266-0110</a>	1	18 to 24 (Solid) 20 to 24 (Stranded)	9.0A
	<a href="#">104266-0210</a>	2		
Vertical-Entry	<a href="#">202394-0110</a>	1	18 (Solid)	3.0A

[www.molex.com/link/litetrp.html](http://www.molex.com/link/litetrp.html)



Sager Electronics is an authorized distributor of Molex and the Lite-Trap SMT Connector System.

[Visit the Lite-Trap series online](#). Or contact a Sager sales representative at 1.800.SAGER.800 or [customerservice@sager.com](mailto:customerservice@sager.com) for price and availability.