Lite-Trap SMT Wire-to-Board Connector System

Standard, Mini, Bottom and Vertical-Entry Types

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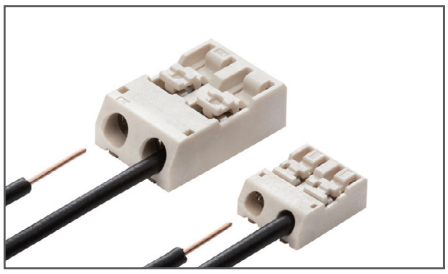
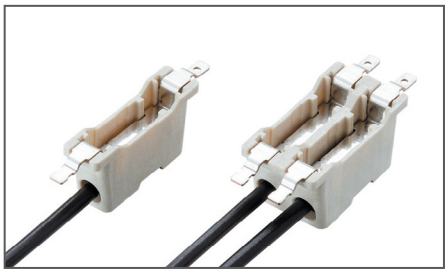
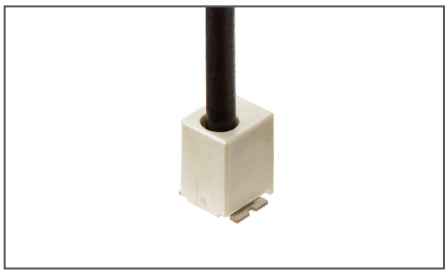
Ideal for thin LED lighting-module applications, Molex's Lite-Trap SMT wire-to-board connectors offer easy wire removability and low-profile top-and-bottom entry styles for reduced shadowing



Standard and Mini Lite-Trap connectors



Bottom-Entry Lite-Trap Connector



Vertical-Entry Lite-Trap Connector

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

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

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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.

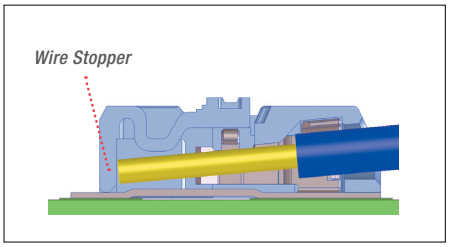
MECHANICAL
Wire Insertion Force: 10.0N max.
(Vertical-Entry: 20.0N max.)
Wire Retention Force:
Standard:
AWG 24-28: 28N min.
AWG 18-22: 50N min.
Mini:
AWG 22: 30N min.
AWG 24: 20N min.
AWG 26: 8N min.
Bottom-Entry:
AWG 18-22: 50N min.
AWG 24: 28N min.
Vertical-Entry:
AWG 18: 50N min.
Durability (min.):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

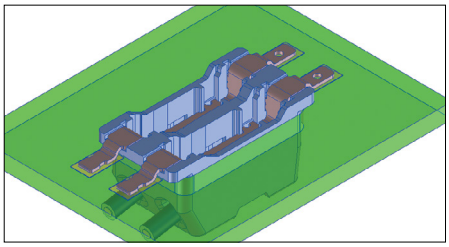
Additional Product Features

Wire Stopper Feature For Wire Protection



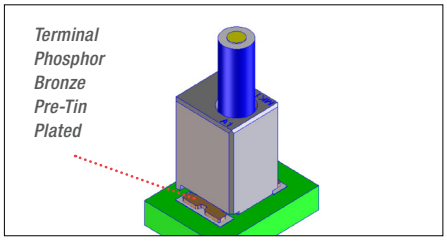
A wire stopper feature built into the mold design helps identify when the wire has been fully inserted to facilitate wire alignment and avoid wire damage

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 vltage and current together

Ordering Information

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

www.molex.com/link/litetrap.html

Order No. 987650-9991 Rev. 7 APN/0k/GF/2017.10