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Ideal for thin LED lighting-module applications, Molex's Lite-Trap™ and Mini Lite-Trap™ SMT wire-to-board connectors offer a low profile, easy wire removal, and low wire insertion and high wire retention forces.

The termination method of Molex's Lite-Trap connector system is similar to Molex's Wire Trap connectors, and also to certain competitive "Poke-In" style versions. A stripped wire is inserted into the connector and pushes open a gate-style terminal that "traps" the wire. To unmate, a button-style lever on the housing top is pushed down to allow the wire to be disengaged.

With profile heights as low as 2.65mm, Molex's Lite-Trap connectors offer an ultra-thin profile to prevent shadowing in LED lighting applications.

Molex's wire-removable Lite-Trap connector offers lower wire insertion force than similar types. It also offers a user-friendly latch that is easy for operators to engage and disengage, even without the use of a tool. These features combine to offer easy field assembly and removal if needed for trained or untrained operators.

Other features of the Lite-Trap connector include a housing design that accepts more insulation-length range than competitive designs. This provides more stable wire seating for electrical contact assurance. The dual-contact wire-trap clamp design provides further mating assurance.
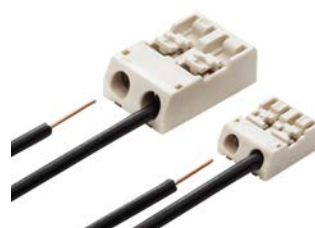
Lite-Trap™ and Mini Lite-Trap™ SMT Wire-to-Board Connector System, Push-Button Type

Standard Type
104188-0110 One Circuit
104188-0210 Two Circuits
Mini Type
104238-0110 One Circuit
104238-0210 Two Circuit

Standard and Mini Lite-Trap™ connectors

Features and Benefits

Ultra low profiles	Meets needs of thin LED modules and other compact applications
User-friendly push-button latch	Ensures easy wire extraction
Dual-contact gate-style terminal design	Enables secure electrical contact and high wire-retention force
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

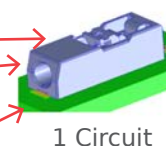## Markets and Applications

> Lighting
   - Down Light
   - Strip Light
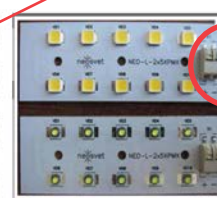> Factory Automation Equipment
> Consumer Electronics
> Any application requiring an easy-to-use wire insertion/extraction method

> LED Down Lighting

1 Circuit

> LED Strip Lighting

2 Circuit

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Specifications

REFERENCE INFORMATION
Packaging: Embossed tape
Designed in: mm
AWG:
  Mini: 22-26 (Solid wire)
  Standard: 18-24 (Solid wire)
  20-22 (Stranded wire)
RoHS Compliant: Yes
Halogen Free: Yes

PHYSICAL
Connector: LCP, UL 94V-0, White
Terminal: Copper Alloy
Plating: Tin

ELECTRICAL
Current (max.): 9.0A (Mini: 3.0A)
Voltage (max.): 300V (Mini: 160V)
Contact Resistance:
  10 milliohms max.
Insulation Resistance:
  1,000 Megohms min.
Dielectric Withstanding Voltage:
  1,600 VAC for 1 minute

MECHANICAL
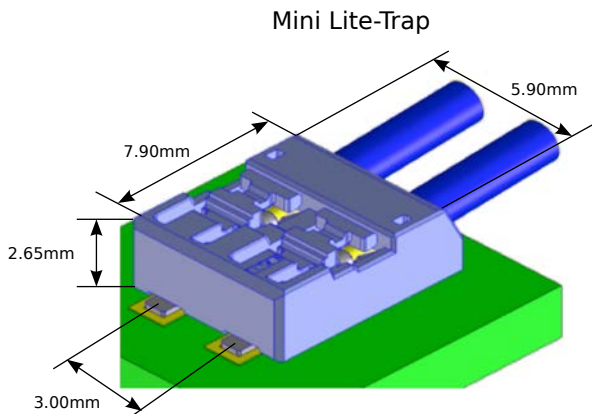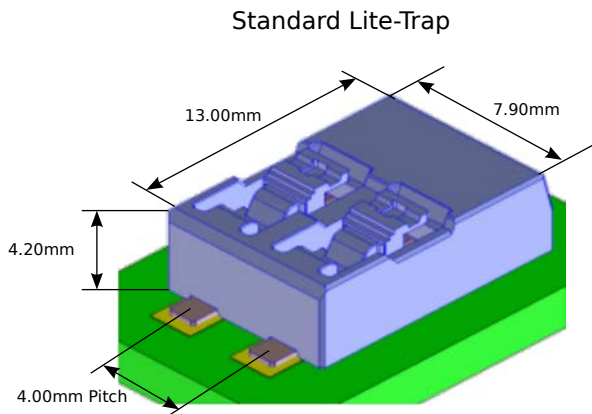Wire Insertion Force:
  15.0N (initial) max.

Standard Versus Mini Type Dimensions

Standard Lite-Trap

13.00mm
7.90mm
4.20mm
4.00mm Pitch

Mini Lite-Trap

5.90mm
7.90mm
2.65mm
3.00mm

Molex's Mini Lite-Trap connector saves about 70% of overall space compared to the standard Lite-Trap version.

Ordering Information

Connectors - Right Angle

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

www.molex.com/link/litetrap.html