



**Ideal for thin LED lighting-module applications, Molex's 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 is similar to Molex's Wire Trap connectors. 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.

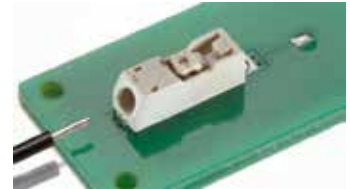
With a profile height of just 4.20mm, Molex's Lite-Trap connectors offer the lowest profile available of similar wire-removable types. Other lower-profile versions are available in the market, but these are permanent one-time connection types that do not allow wire removal.

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.

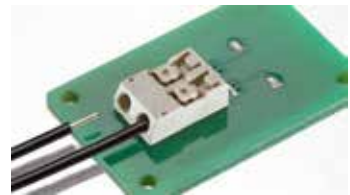
Other features of the Lite-Trap connector include a housing design that accepts more insulation-length range than competitive designs. This provides more stable wire seating for electrical contact assurance. The dual-contact wire-trap clamp design provides further mating assurance.

**PRELIMINARY**

**Lite-Trap™ SMT Wire-to-Board Connector System, Push-Button Type**



One-Circuit Type



Two-Circuit Type

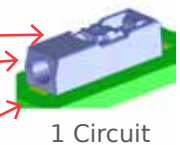
**Features and Benefits**

Low profile (4.20mm)	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**

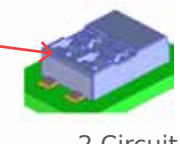
- > Lighting
  - Down Light
  - Strip Light
- > Factory Automation Equipment
- > Consumer Electronics
- > Any application requiring an easy-to-use wire insertion/extraction method

> LED Down Lighting



1 Circuit

> LED Strip Lighting



2 Circuit

**Specifications**

**REFERENCE INFORMATION**

Packaging: Embossed tape  
Designed in: mm  
AWG: 18-24 (Solid wire)  
RoHS Compliant: Yes  
Halogen Free: Yes

**MECHANICAL**

Wire Insertion Force:  
15.0N (initial) max.  
Wire Extraction Force:  
AWG 24: 28.0N min.  
AWG 18-22: 50.N min.

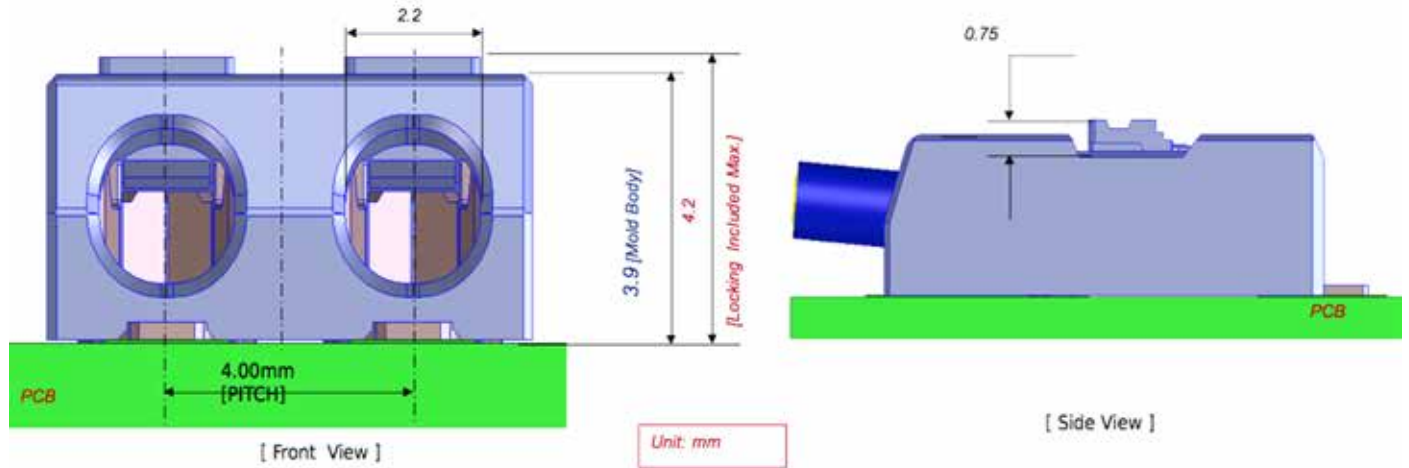
**ELECTRICAL**

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

**PHYSICAL**

Connector: LCP, UL 94V-0, White  
Terminal: Phosphor Bronze  
Plating: Tin

**Dimensional Overview**

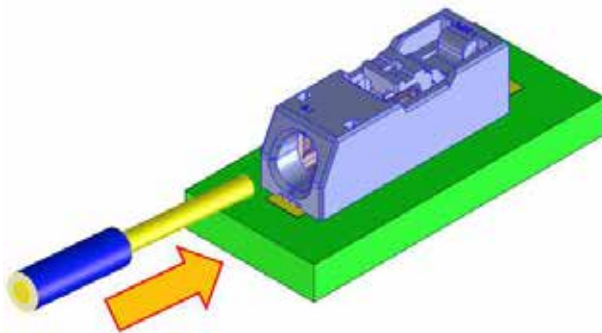


Molex's Lite-Trap™ connectors offer an overall compact size, with the lowest profile available in the industry for wire-removable styles.

**Additional Product Features**

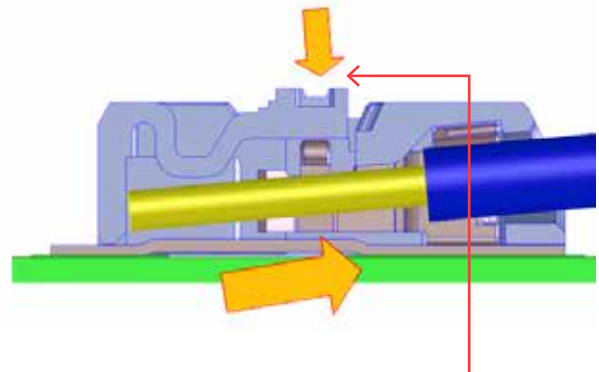
**How the Lite-Trap™ Connector Works**

**Wire Insertion**



Wire is directly inserted and pushes open low-insertion force gate-style terminal, which "traps" wire in place

**Wire Extraction**



Button-style lever is pushed down, gate-style terminal opens, and wire can be freely pulled out.

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

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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