



Introducing TE Solderless LED Socket, Type LS

The TE Solderless LED Socket, type LS is a quick termination connector system for use with the Philips Lumileds LUXEON S. The connector features easy, snap-together tool-less insulation displacement termination to the customer's commonly available 24awg wire. Termination to the LUXEON S LED is simplified by the use of an easily applied locator frame that pre-positions the LED on a customer's heatsink prior to final connectorization using the socket. To further enhance integration capabilities, the socket is offered in a version that includes snap-attach features allowing the use of custom or off-the-shelf optical solutions.

KEY FEATURES

- Solderless termination to LUXEON S LED
- Integral optics attachment features
- LED locator to aid assembly
- Three screw attachment using M3 or #4 screws
- No-strip IDC termination of 24 AWG solid & stranded wires
- Integral thermal spring frame helps provide adequate normal force for LED to heat sink
- Low profile – housing optical interference <2% of total LED light output

APPLICATIONS

- Custom single source spot lighting fixtures
- Lighting fixtures requiring multiple distributed, high intensity sources
- Integrated retrofit spot lights (PAR30, PAR38, MR-16 etc)

The TE solderless LED socket, type LS eliminates the need to design, manufacture and integrate a complex metal clad circuit board (MCPCB) assembly into the lighting fixture. This frees the lighting fixture designer to move beyond the limitations inherent in a planar MCPCB LED assemblies. The ability to easily place an LED anywhere in a fixture using simple hand tools provides the fixture designer with a broad range of novel integration possibilities.

MECHANICAL

- -40°C to 105°C continuous operating temperature
- 35.9mm x 29.6mm socket size
- Fits within 42.2mm diameter circumscribed circle centered on LED
- 3mm height within optical emission area
- 5.20mm height at the connector interface
- For use with 24 AWG UL1007 solid or stranded wire or equivalent

ELECTRICAL

- Current rating: 1.5A
- Voltage rating: 40 VDC
- Dielectric Withstand Voltage: 1500 VAC

MATERIALS

- Select gold plated contact interface to LED
- Select tin plated Insulation Displacement Crimp (IDC) interface to wire
- High performance copper alloy contact
- Stainless steel LED pressure spring
- UL 94V0 rated high temperature thermoplastic housing and locator



AGENCY STANDARDS

- Designed to comply with UL 1977

APPLICATIONS AND SPECIFICATIONS

- Application Specification # - 114-13294
- Product Specification # - 108-2455
- Customer Drawing # - 2154235

PRODUCT OFFERING

- 2154235-1:** Solderless LED socket, type LS without optics latches
- 2154235-2:** Solderless LED socket, type LS w/ optics latches
- 1-2154430-1:** Solderless LED socket, type LS snap-on reflector, 10 degree beam angle

Note: Snap-in "VENLA" series reflectors available from LEDIL OY in a variety of beam angles.

