

# LUMAWISE LED HOLDERS

## Solderless termination of Chip-on-Board (CoB) LEDs

An LED holder is a circular receptacle or socket that enables a CoB LED to be mechanically secured, electrically connected and pressed to a heatsink. TE Connectivity's (TE) LUMAWISE LED holders remove the need to solder allowing the LED to be directly attached to a heatsink using two M3 screws at a standardized screw-pitch. In addition, they always have an optics landing zone at the same distance from the light emitting source of the LED.



### What do LED holders do?



#### An LED holder has four important functions:

It holds the CoB LED while mounting to the heatsink

It pushes the CoB LED to the heatsink after the holder is screwed to it

It makes electrical contact to the CoB LED to enable easy wire connection

It provides an isolated landing zone for secondary optics such as reflectors and lenses

TE's LED holders form the core of the fixture ecosystem by integrating LED electrical, mechanical, thermal, and optical interconnectivity. These holders can accelerate time to market, minimize applied costs, facilitate easy integration, and improve assembly efficiency when compared to traditional methods of LED integration. They are designed to enable engineers to develop Zhaga compliant modules. The portfolio includes [optics attachment versions](#) that function with LEDiL optics to provide the lighting designer with beam shaping flexibility in spot and downlight applications.

TE provides a broad range of solderless LED holders that provide fixture designers an easier way to integrate LEDs into their designs.



**Z50 LED HOLDERS  
ZHAGA PROFILE**



**Z50 LOW PROFILE LED  
HOLDERS**



**Z45 LED HOLDERS**



**Z35 MINI LED HOLDERS**



**LED-TO-HOLDER CROSS  
REFERENCE**



**LUMAWISE LED**



### ELECTRICAL

- Current: 3A\*
- Voltage: 60V DC



### MECHANICAL

- Operating temperature range from -40°C to 105°C
- Utilize a screw size of #4 or M3 for attachment
- Poke-in style electrical contacts supporting 18-22 AWG (0.35 - 0.75mm<sup>2</sup>) solid, fused and stranded wire
- Enable compliancy to Zhaga book 3 standard



### MATERIAL

- Halogen free highly reflective PBT, Copper alloy contact with gold plating

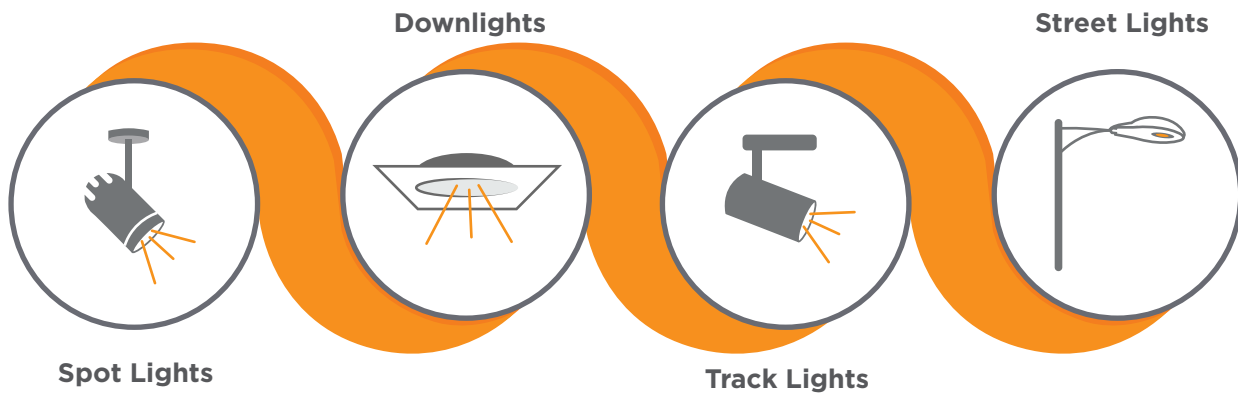


### Applications

- Spot Lights
- Downlights
- Track Lights
- General Lighting
- Street Lights

\*See product specification per part number

## Types of LED



TE Connectivity is a participating member of the Zhaga Consortium, an industry-wide cooperation enabling the interchangeability of LED light sources and simplifying LED applications for general lighting.

### LEDiL®

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