

**Molex's S8 Bulb Socket is the first version in the market to offer a one-piece design, which simplifies assembly and reduces inventory and component costs**

The S8 style of socket has been in use for over 10 years, with the standard design being a two-piece housing comprised of a male pin module that accepts the bulb contact on one side and the female terminal on the other.

Molex saw an opportunity to dramatically simplify the process by developing the industry's first one-piece S8 bulb socket, which offers the following advantages:

- Inventory just one socket versus a pin module and terminal housing
- Inventory just one key type and color per assembly, versus different color pin modules, housings and key type assembly options
- Accepts both single and double-filament bulbs by leaving one circuit void, which allows users to just stock double filament bulbs for further inventory and cost savings

The Molex S8 bulb socket design also includes a patented individual wire seal design that provides easy attachment during the crimping process, and also provides superior sealing and usability compared to competitive sealing systems that are not directly crimped to the terminal.

## S8 Automotive Bulb Sockets



### FEATURES AND BENEFITS

#### Features

- One-piece housing design
- Three-circuit housing design to accommodate single or double filament bulbs
- Individual wire seal
- One-touch wedge-style mating
- SAE/USCAR-15 compliant
- High-temperature housing material

#### Benefits

- Reduces inventory stocking and component costs
- Eliminates need to source and stock different housings for different bulb requirements
- Superior sealing and easier assembly versus non-crimped seal insert method
- Simpler insertion/extraction versus push-and-turn types
- Meets industry-standard requirements
- Helps prevent fogging of lamp unit

### SPECIFICATIONS

#### Reference Information

- Use With: S8 bulb (PY27W/7W)
- Designed In: mm

#### Electrical

- Voltage: 14V DC max.
- Current: Major 2.4A; Minor 0.6A max.

#### Mechanical

- Contact Retention to Housing: 30N min.
- Socket Mounting Force: 2N max.
- Bulb Mating Force: 75N max.
- Bulb Unmating Force: 65N max.

#### Physical

- Housing: PPE +PA (Glass-filled)
- Lamp Holder Contact: SUS
- Contact: Brass
- Plating:
  - Contact Area — 0.8-1.8u Tin Plating
  - Underplating — 0.3-0.8um Copper Plating
- Wire Seal: Silicon (Red)
- Operating Temperature: -40 to +85° C

### MARKETS AND APPLICATIONS

#### Transportation

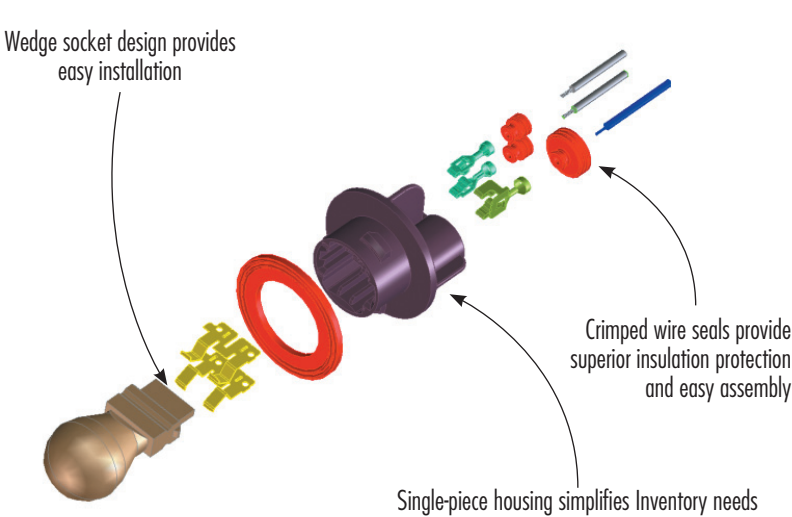
- Automobiles
- Tractors
- Boats

#### Construction equipment

- > Turn signals
- > Brake lights
- > Positioning lights
- > Backup lights



FEATURES AND BENEFITS



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ORDERING INFORMATION

Bulb Socket Housings

Order No.	Color	Light Center Length (LCL)	Circuits	Bulb Cap Dimensions	Sealed
49454-0325	Gray	25.40mm	3	W2.5 x 16q	Yes
49454-0311	Black	25.40mm			
104039-0311	Black	34.90mm			
104039-0345	Gray	34.90mm			
104037-0320	Natural	29.45mm			
104037-0311	Black	29.45mm			
104037-0345	Gray	29.45mm			

Crimp Terminals

Order No.	Type
49869-9702	Single for Power
49868-9702	Double for Grounding

Wire Seals

Order No.	Product Attribute	Color	Applicable Wire
49454-9002	Small Type	Red	1.8-2.2mm
49454-9003	Large Type		
49454-9004	For void		