

SIGNAL AND POWER CONNECTIVITY SOLUTIONS

SINGLE WIRE SEALS AND CAVITY PLUGS

- **Reliable, safe and validated solutions for automotive sealed connector systems**
- **One-stop-shop solution providing one complete sealed automotive connector system helping reduce supply chain complexity and address performance and safety requirements**



TE Connectivity's (TE) broad portfolio offers a variety (>180) of different seals and cavity plugs for most wire sizes and connector cavities, designed for automotive connector systems. They effectively prevent contaminants from entering the connectors, enabling safe and reliable connections.

Single Wire Seals (SWS) have three different interfaces that use a multi-lip configuration that creates layers of redundant sealing and are generally made of liquid silicon rubber that offers high mechanical resistance and can work in a wide window of operating temperatures.

TE's cavity plugs are used to seal a single connector cavity where no contact is used and can be used in either female or male housings with some that are cavity compatible with competitor terminals. The geometrical profile is fully sealed from the single wire seal element with the exception that it does not have an inner hole for wire.

KEY BENEFITS

Reliable, Safe and Sealed Connector Solutions Provider

- Broad, complete portfolio providing a one-stop-shop solution for automotive applications
- Cavity compatible with some competitor terminal systems
- Global manufacturing footprint and integrated supply chain
- Harness automation ready
- 48V architecture enabled

Single Wire Seals (SWS):

- Multi-lip configuration creating three layers of redundant sealing
- Silicon rubber offers a high mechanical resistance in numerous operating temperatures
- Material hardness specified at 50-60 Shore A (ShA) durometer providing optimal compression, tear resistance and durability required
- Lubrication for wire passage through the seal to reduce damage when inserted into the cavity

Cavity Plugs

- Silicon rubber material selection with a ShA hardness ranging between 50-60
- High level seal retention into cavity

TARGET MARKETS

- Passenger and Commercial Vehicle Industry (CVI)
- Industrial, Machine, & Equipment
- Appliance

APPLICATIONS

Ideal for Harsh Environment Applications Required to Support:

- Vibration
- Elevated Temperatures
- High Current Capabilities
- Wire-Wire, Wire-Board, & Wire-Device
- Powertrain Systems
- Chassis Systems
- Safety Systems
- Door to Body
- Driver Information
- Convenience
- Entertainment