

# JWPF Connector

Wire –to-Wire



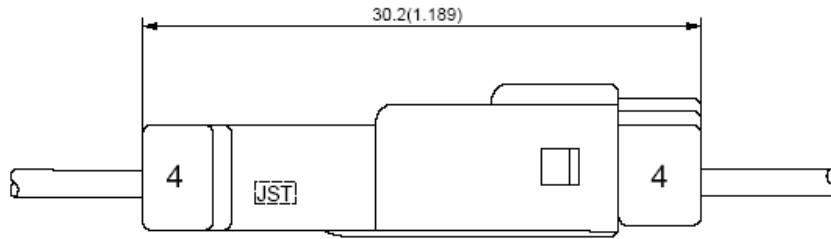
Wire –to-Board



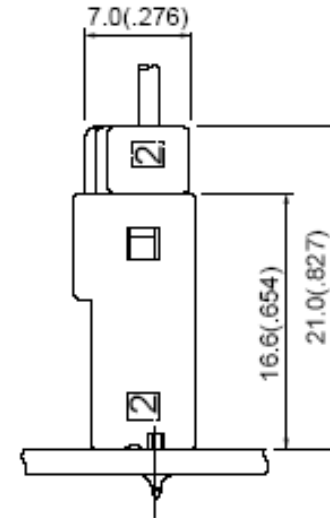
**JST is proud to introduce the JST JWPF waterproof connector series.**

# JWPF Connector

## Wire –to-Wire



## Wire –to-Board



Most waterproof connectors are large in size, difficult to handle in a production environment and expensive. Meeting customer needs for a small form factor waterproof connector that is easy to handle and cost effective has long been a challenge.

The JWPF series meets the need for a small form factor waterproof connector. The JWPF series has an IP67 waterproof rating per IEC 60529. The JWPF series is on a 2.0mm pitch (contact to contact) and 4.0mm row to row spacing for double row versions. The overall size when mated is just 30.2mm for the wire to wire series and 21.0mm for the wire to PCB version.

# JWPF Connector

## Wire -to-Wire



The JWPF wire to wire waterproof connector is available in 2,3,4,5,6 and 8 positions. These waterproof connectors deliver a cost effective solution by utilizing a brass tin plated tab contact and a copper alloy tin plated receptacle contact. The contact system has a 3 amp rating and handles 26-22 AWG wires.

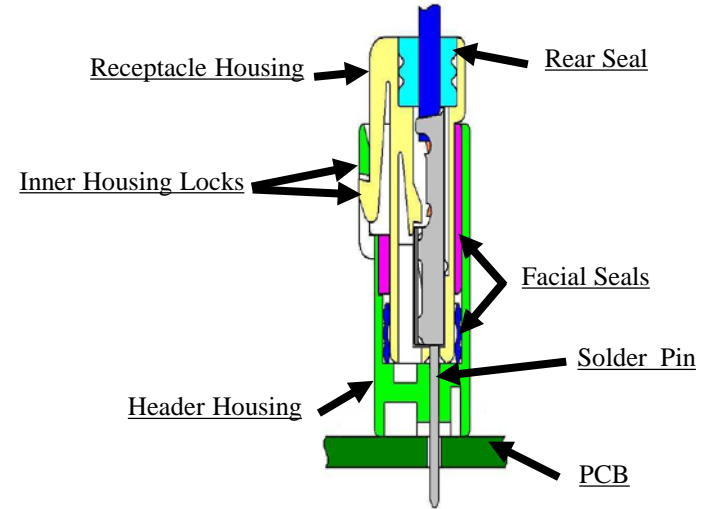
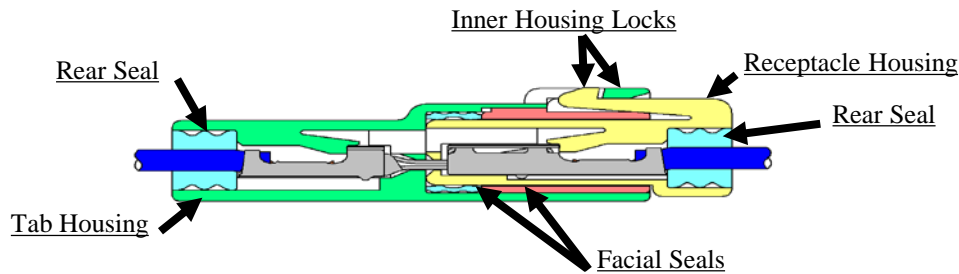
# JWPF Connector

## Wire –to-Board



Available in 2, 3 and 4 positions, the JWPF wire to board waterproof connectors deliver a similar cost effective solution by utilizing a phosphor bronze tin plated receptacle contact. As with the wire to wire version the wire to board version contact system has a 3 amp rating and handles 26-22 AWG wires. Shrouded headers utilize a copper alloy tin plated contact and are available in a vertical or top entry, style and designed for general use as well as with resin coated (“potted”) PC boards. The header is also designed to accept the wire to wire type JWPF connector receptacle for maximum flexibility.

# JWPF Connectors



The JWPF series has a unique construction in both the wire to wire and wire to board series. A seal ring is applied for complete sealing at the mating side that is contained in the header or in the tab housing, depending on which series is being used, which protects the interface when mated from moisture, dirt, scratches and cracks.

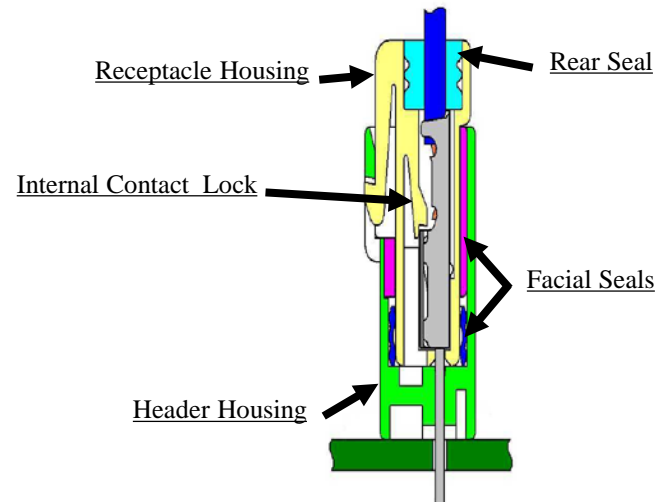
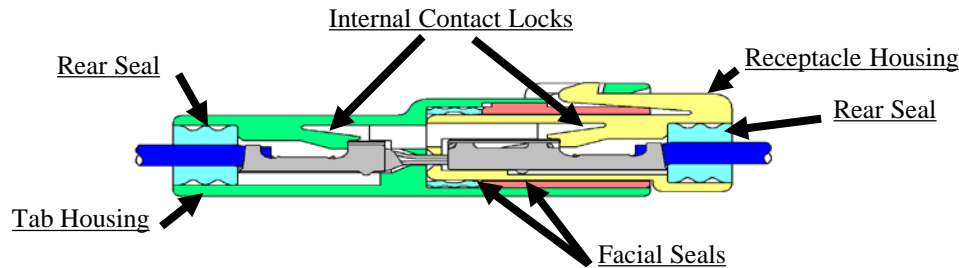
A solid rubber seal is used for wire side sealing that makes the size compact.

The contact system has a double spring construction that ensures superior contact force.

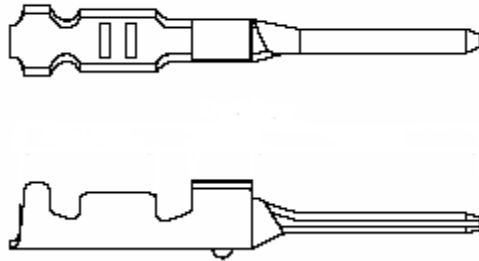
Spring action housing to terminal locks are an inherent part of the housing and assure smooth contact insertion and firm contact retention yet with low insertion force.

An inner housing lock secures the plug to the receptacle and prevents accidental disconnection. The lock with protectors on both sides is not affected by external forces that might result from the routing of wires.

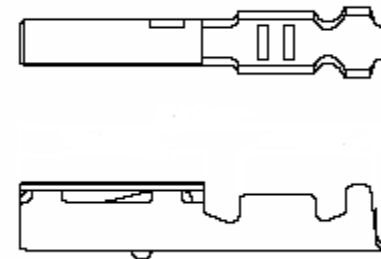
# JWPF Connectors



**Tab contact**

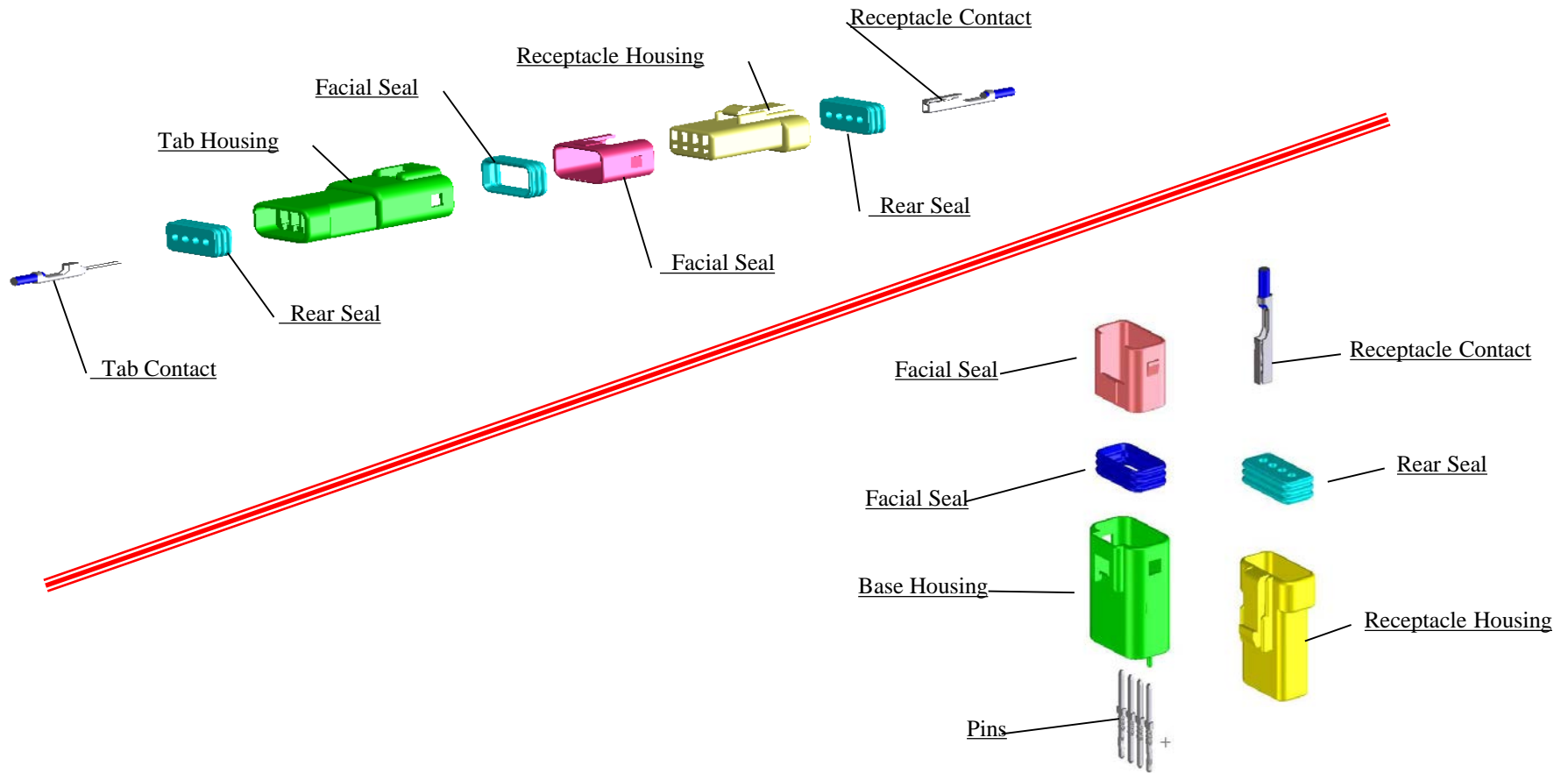


**Receptacle contact**



The JWPF series employs “lanceless” contacts. The contacts are “clean” and designed without exterior locking lances which tend to become distorted, depressed, tangled or damaged through handling. The locking feature for the JWPF series is internal to the housing. In addition to eliminating the concerns relative to the terminated wires this design approach also assures the elimination of contact back out since the contact locking mechanism is fully within the connector housing.

# JWPF Connector Components



The JWPF series is manufacturing friendly. The connectors come with all seals pre-assembled eliminating the need for additional handling on the manufacturing floor. The terminated lance less contacts are inserted into their respective housings through the rear seal.

# JWPF Connectors



## SUMMARY:

- The JWPF connector series offer a flexible, manufacturing friendly and cost effective solution to those customers looking for a reliable small factor solution for a waterproof IP67 rated product.
- JWPF series offered in both a wire to wire and wire to board configuration.
- Use of tin plated contacts rated to 3 amps provides a cost effective solution.
- Connector comes with all seals pre-assembled eliminating the need for additional handling on the manufacturing floor.
- Contacts are 'clean' to eliminate damage through handling
- Contact locking feature is internal to housing thereby eliminating contact back out.