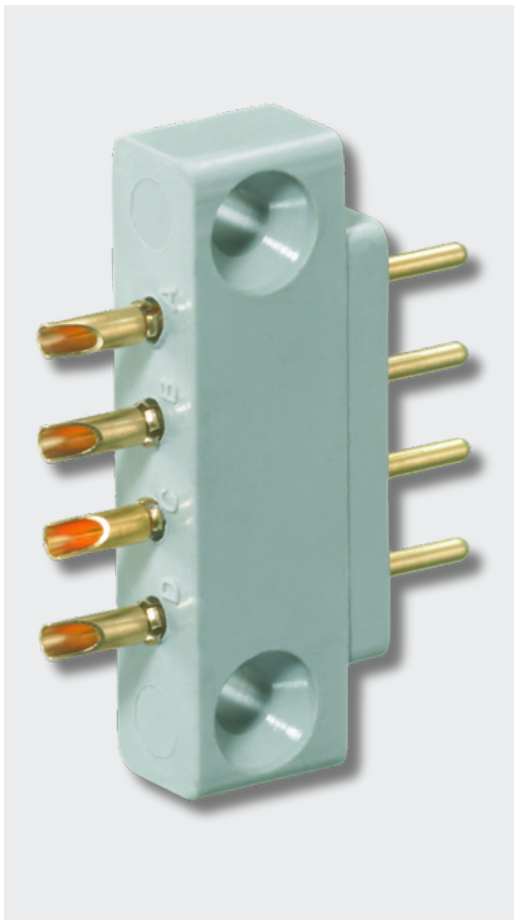


# JF Connectors

Aptiv's JF Series is a high density, narrow width, high performance connector system designed for space constrained applications where rugged and reliable interconnects are needed. Featuring a compact footprint with countersunk mounting holes and several polarizations options, JF Connectors provide high circuit density and positive mating for industrial, military, aerospace, instrumentation and telecom applications.



## KEY FEATURES & BENEFITS

- Exceptionally Flat Mounting: Countersunk holes and narrow width for minimal profile.
- High Circuit Density: Multiple polarization options maximize contact density.
- Reliable in Harsh Environments: Built to perform in demanding applications.
- Versatile Applications: Trusted across aerospace, defense, industrial, and telecom sectors.
- Miniature Side-Mount Design: Ideal for tight installation spaces.
- Positive Polarization: Prevents mis-mating and ensures proper connection.
- Durable Construction: Long-lasting performance with quality materials.

## PRODUCT SPECIFICATIONS

| Electrical Properties           |                                    |
|---------------------------------|------------------------------------|
| Current Rating                  | 7.5A (per contact, #20 contacts)   |
| Voltage Rating                  | 1500 VAC (sea level)               |
| Insulation Resistance           | 5000 MΩ min @ 500 VDC              |
| Dielectric Withstanding Voltage | 1000–1500 VAC (sea level)          |
| Contact Resistance              | 10 mΩ max (initial, per contact)   |
| Operating Frequency             | General purpose (power/signal use) |

| Environmental Properties |                                        |
|--------------------------|----------------------------------------|
| Operating Temperature    | Up to +125°C                           |
| Thermal Shock            | MIL-STD-202, Method 107                |
| Humidity                 | MIL-STD-202, Method 103                |
| Salt Spray / Corrosion   | MIL-STD-202, Method 101 (48–500 hrs)   |
| Vibration                | MIL-STD-202, Method 204                |
| Shock                    | MIL-STD-202, Method 213                |
| Ingress Protection       | IP67 (sealed variants)                 |
| Fluid Resistance         | Withstands industrial/aerospace fluids |

### PRODUCT SPECIFICATIONS CONTD.

| Mechanical Properties |                                          |
|-----------------------|------------------------------------------|
| Contact Size          | #20 (0.040"), also #16 for JFA variants  |
| Number of Positions   | 2 to 4 (custom options available)        |
| Mounting              | Side-mount, countersunk holes            |
| Shell Material        | Aluminum alloy, multiple plating options |
| Contact Material      | Gold-plated copper alloy                 |
| Insulator Material    | Glass-reinforced thermoset epoxy         |
| Mating Cycles         | 500 to 1000 cycles minimum               |