

# G4PO® Interconnect Series

## Product Information

Corning  
Gilbert

G4PO is a miniature, push-on, high performance, microwave interconnect system. It was developed in response to industry's demand for increased package density, lower weight, and performance at higher frequencies.

- Center-to-center spacing of 0.070" and PCB to PCB stack height of 0.090" are available for increased package density.
- The G4PO® blindmate interconnect, Part No. S1S1-0001-01 weighs just 5 milligrams.
- RF Performance from DC to 60 GHz
- Designed to accommodate both radial and axial misalignment with negligible VSWR change.
- Adapters available to 2.92mm and 1.85mm.



G4PO Bullets in a Salt Shaker

## G4PO® Product Characteristics<sup>1</sup>

- **Impedance:** 50 Ohms
- **Frequency:** DC to 60 GHz
- **VSWR:** 1.15:1 to 15 GHz typical; 1.25:1 typical to 60 GHz
- **Insulation Resistance:** 3,500 megohms min.
- **Center Conductor Contact Resistance:** 6.0 milliohms max.
- **DWV @ Sea Level:** 250 Vrms
- **Corona Level @ 70,000':** 100 Vrms
- **RF High Pot. @ 5 MHz:** 150 Vrms
- **Force to Engage:** .65 lbs. typical Full Detent, .20 lbs. typical Smooth Bore
- **Force to Disengage:** 2.2 lbs. typical Full Detent, .15 lbs. typical Smooth Bore
- **Center Contact Retention:** 0.75 lbs. min. (captivated designs)
- **Misalignment, Radial:** ± 0.005"
- **Misalignment, Axial:** 0.007" (flush to -0.007" from the reference plane)
- **Temperature Range:** -65° C to +165° C

### NOTES:

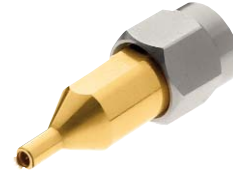
<sup>1</sup> Performance listed is typical. Individual part configuration may vary. Contact our Customer Care Team for more information and specifications by part number.

## Product Examples

S1S1-0001-01  
Blindmate Interconnect



1S3D2-0503-01  
Male to 2.92mm Plug Adapter



1S3M1-0503-01  
Male to 1.85mm Jack Adapter



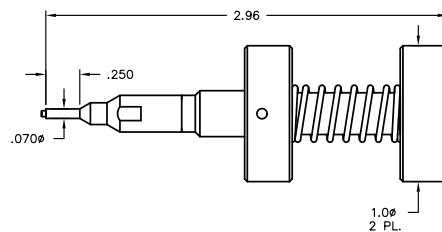
- **Environmental Testing:** Meets MIL-PRF-39012 for Corrosion, Vibration, Mechanical Shock, Thermal Shock and Moisture Resistance (paragraphs 3.13, 3.18, 3.19, 3.20, 3.21)

## G4PO® Tools

G4PO tools are rugged in construction and easy to use. The removal tools are engineered for low-impact removal of G4PO components, preventing undue stress and damage. Corning Gilbert also offers an array of other easy-to-use cable assembly tools, including the contact retaining tool.

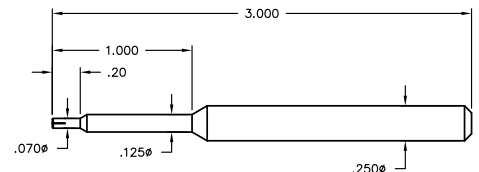
S095-A99-01

G4PO Blindmate Interconnect Removal Tool



S094-A91-01

G4PO BMI Installation Tool



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