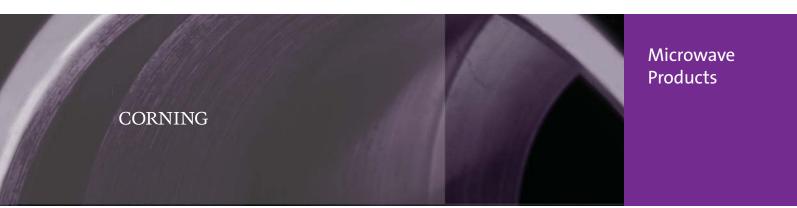
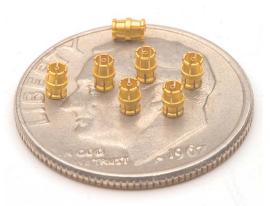
G3PO[™] Interconnect Series

Product Information



A nano-miniature, push-on, high performance, microwave interconnect system. Developed in response to industry demand for increased package density, lower weight, and performance at higher frequencies.

- Center-to-center spacing of 0.085" and PCB to PCB stack height of 0.120" are available for increased package density.
- The G3POTM blindmate interconnect, Part No. R1R1-0001-01 weighs just 0.2 milligrams.
- RF Performance from DC to 65 GHz
- Designed to accommodate both radial and axial misalignment with negligible VSWR change.
- Adapters available to SMA and 1.85mm.



G3PO Bullets on a Dime

G3POTM Product Characteristics¹

- Impedance: 50 Ohms
- Frequency: DC to 100 GHz
- VSWR: 1.1:1 to 26.5 GHz typical;
 1.25:1 typical to 65 GHz
- Insulation Resistance:3,500 megaohms 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:** 3.5 lbs. typical Full Detent, 1.6 lbs. typical Smooth Bore
- Force to Disengage: 6.0 lbs. typical
 Full Detent, 2.5 lbs. typical
 Smooth Bore
- Center Contact Retention:0.75 lbs. min. (captivated designs)
- Misalignment, Radial: ± 0.010"
- Misalignment, Axial: 0.010" (flush to -0.010" from the reference plane)
- Temperature Range: -65° C to +165° C
- 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)

Product Examples

R1R1-0001-01 Blindmate Interconnect



R010-L13-01 Male PCB Edge Mount



R014-B11-01 Female Cable Straight 0.047 S/R



R055-A11-01 Female 50 Ohm Load



R055-A13-01 Male 50 Ohm Load Full Detent



Performance listed is typical. Individual part configuration may vary. Contact our Customer Care Team for more information and specifications by

part number.

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NOTES:

$\mathbf{G3PO}^{\mathsf{TM}}$ Tools

G3PO tools are rugged in construction and easy to use. The removal tools are engineered for low-impact removal of G3PO 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.

R095-A99-01

G3PO Blindmate Interconnect Removal Tool

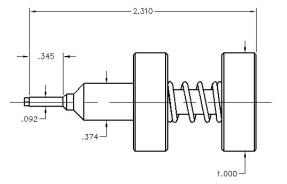
Material & Finish:

Rear Insert, Head, & Plunger Cres 303; Passivated

Collet BeCu; Bright Alloy Plate

Front Body 17-4 PH Stainless Steel; Passivated

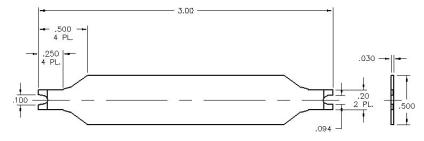
Spring Stainless Steel



R098-A99-01 G3PO Cable Connector Removal Tool

Material & Finish:

Removal Tool 304 Stainless Steel

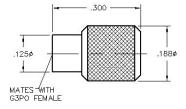


R096-A95-01 G3PO Center Contact Retaining Tool

Material & Finish:

Housing Cres 303; Passivated

Plug 17-4 PH Stainless Steel; Passivated



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