





## Corning® Gilbert® POLYLINK™


### Polymer-Plated Interconnect for Enhanced RF Links

The radiofrequency and microwave connectivity industry's first gold-plated plastic microwave connector, POLYLINK, is a lighter and more cost-advantaged solution for applications up to 26.5 GHz. POLYLINK provides a reliable alternative to Corning's metalized beryllium-copper based push-on interconnect solutions (GPO®, GPPO®, G3PO™, and G4PO™), with compatible interfaces, faster production/lead time, and demonstrated performance. When every gram of payload counts and cost efficiency becomes a priority, POLYLINK can help solve tough connectivity challenges.

### Low Cost, Light Weight, and Short Lead Time

 Up to 33% lighter at a lower cost than similarly sized Corning Gilbert metal blindmate interconnects.

 Allows axial compression of the blindmate interconnect (withstand up to .005 axial compression).

 Demonstrated reliable blindmate interconnect performance for low-to-medium frequencies (up to 26.5 GHz) and ideal for single-use applications.

### Applications

- Telecommunications, 5G, and high frequency commercial networks
- Aerospace and defense industries
- Automotive radar/sensing systems
- Weight-sensitive applications

#### Corning POLYLINK Interconnect



#### Corning Metal Interconnect

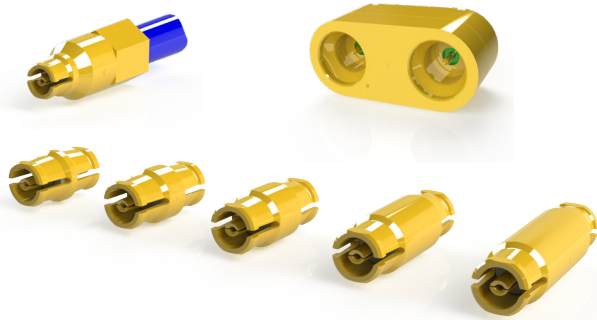


# Corning® Gilbert® POLYLINK™ Interconnect Series

Corning's POLYLINK interconnect series offers a lower weight blind mate interconnect that has center-to-center spacing of 0.135 in and weighs .06 g. This series maintains intermateability with standard GPPO® connectors.

## POLYLINK Environmental Performance\*

Thermal Shock	MIL-STD-202, Method 107, Condition B
Vibration	MIL-STD-202, Method 204
Moisture Resistance	MIL-STD-202, Method 106, Except Step 7B
Salt Spray	MIL-STD-202, Method 101
Shock	MIL-STD-202, Method 213, Condition I



## POLYLINK Product Characteristics\*

Impedance	50 Ohms
Frequency	DC to 26.5 GHz
Temperature Range	-65°C to +125°C
Contact Resistance	6.0 milliohms max., inner conductor 2.0 milliohms max., outer conductor
Insulation Resistance	5,000 megaohms min.
VSWR	1.25:1 to 15 GHz typ.; 1.35:1 to 26.5 GHz typ.
DWV at Sea Level	325 Vrms
Corona Level at 70,000 ft	125 Vrms
RF High Pot. at 5 MHz	200 Vrms
Center Contact Retention	1.5 lbs min. (captivated designs)
Radial Misalignment	3 degrees
Axial Misalignment**	0.020 in
Durability	10 cycles, full detent
Force to Disengage †	5 lbs typ., full detent
Force to Engage †	2.5 lbs typ., full detent

\* Performance listed is typical. Individual part configuration may vary. Contact our technical team for more information and specification by part number.

\*\* Base material allows for up to .005 in axial compression

† Engage/disengage forces are typical when mated with Corning metal shrouds.

## Learn More About POLYLINK at [Corning.com/Microwave](https://www.corning.com/Microwave) or Contact Our Customer Care Team:



### Phone:

1-800-743-2675 (U.S. and Canada)

1-828-901-5000 (International)



### For inquiries/quote requests:

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