

# GPO Female Blindmate Interconnect

1.30 Length

CORNING



Part Number: A1A1-0001-12

## Specifications

General Specifications	
Category	Interconnect
Impedance	50 $\Omega$
Frequency Range	DC to 40 GHz typ.
Materials, Bodies	Beryllium Copper per ASTM B196 and or/ASTM B197
Materials, Outer Contacts	Beryllium Copper per ASTM B196 and or/ASTM B197
Materials, Center Contacts	Beryllium Copper per ASTM B196 and or/ASTM B197
Materials, Insulators	PTFE Fluorocarbon per ASTM D1710
Materials, Springs	17-7 Stainless Steel per ASTM A313-95A
Finish, Bodies	Gold plated per MIL-G-45204, Type I, Grade C, Class 1, Over Nickel Plate per SAE AMS-QQ-N-290
Finish, Contacts	Gold plated per MIL-G-45204, Type I, Grade C, Class 1, Over Nickel Plate per SAE AMS-QQ-N-290

  

Temperature Range	
Installation	-65 °C to 165 °C

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## Design - Hardware

Length	1.300 in
Width	0.131 in
Diameter A	0.131 in
Diameter B	0.131 in

## Mechanical Characteristics

Mate / Demate Cycles FD	100 min
Mate / Demate Cycles LD	500 min
Mate / Demate Cycles SB	1,000 min
Force to Engage / Disengage FD	7.0 lbs. typ. / 9.0 lbs. typical
Force to Engage / Disengage LD	5.0 lbs. typ. / 7.0 lbs. typ.
Force to Engage / Disengage SB	3.0 lbs. typ. / 0.5 lbs. typ.
Tolerated Misalignment Axial	0.010 (flush to 0.010 from reference plane)
Tolerated Misalignment Radial	+ / - 0.010

## Electrical characteristics (at 20°C)

Insertion Loss	0.04 vf GHz
DWV at Sea Level	500 Vrms voltage
Insulation Resistance	≥ 5000 MΩ (DC)
Contact Resistance - Outer Conductor	< 2 mΩ
Contact Resistance - Inner Conductor	< 6 mΩ
VSWR	1.10:1 to 8 GHz, 1:35:1 to 26.5 GHz, 1.5:1 to 40 GHz

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Environmental Influences

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

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## Ordering Information

Part Number	A1A1-0001-12
Product Description	GPO Female Blindmate Interconnect, 1.30 Length
EAN Code	4056418761077



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