

**PO40G series**

**RF CO - AXIAL CONNECTORS**

## 40GHz Super High Frequency Push-on-lock type Coaxial Connector



### Features

- (1) Push-on type. Aiming at VSWR1.3 or less upto 40GHz
- (2) Compatible with SMP(MIL) and GPO by GILBERT
- (3) Receptacle with Hermetic seal is available.

### Applications

Optical/Electric communication equipment, Electric measurement equipment

### Product Specification (Nominal)

Ratings	Characteristic impedance : 50 Frequency rating : DC ~ 40GHz	Operating temperature range : -50 ~ +125 Operating humidity : 95% or less
Item	Specification	Condition
1. Contact Resistance	Center : 10m Outside : 10m	Measured at 10mA or less
2. Insulation Resistance	250M or greater	Measured at 250 V DC
3. Withstand Voltage	No line or insulation breakdown	300V AC for one minute
4. Return Loss	15dB or greater	DC ~ 40GHz
5. Female contact holding force	0.3 ~ 3N	Measured with 0.35mm pin gauge
6. Repetitive operation	Contact resistance Center : 13m Outside : 13m	500 cycles of insertion and disengagement
7. Humidity Resistance	Insulation resistance : 100 M or greater (humid condition) 1000 M or greater (dried condition)	Temperature - 10 ~ 65 , Humidity 90 ~ 96% x 10cycles, let stand for 240hours
8. Temperature cycle	No damage, crack, or parts looseness	-65 30min, + 125 30min x 5 Cycles
9. Salt spray test	No excessive corrosion	48 hours continuous exposure to 5% brine

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## Materials

PARTS		MATERIAL	FINISH
Shell 1	Plug exterior (around spring)	Beryllium copper	Gold plating
	Receptacle, Shell body	Stainless steel	Gold plating, Passivate
Center contact 1	Male contact	Phosphor bronze	Gold plating
	Female contact	Beryllium copper	Gold plating
Insulator		PTFE resin	-

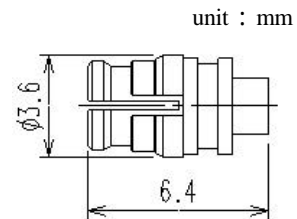
1 For hermetic seal product, the material of shell and center contact is covar , and the finish is gold plating

## Product range ( we can add product rage according to customer's request )

### PLUG

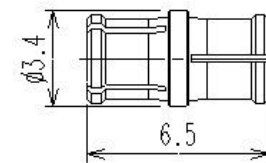
.047-inch semi-flexible cable

We will be selling cable assembly only for quality assurance



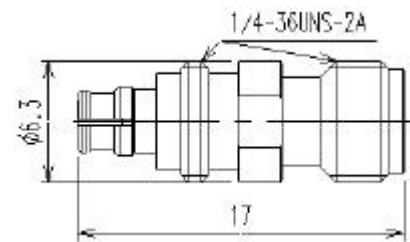
### IN-LINE PLUG

Mating area  
PO40G plug – PO40G plug



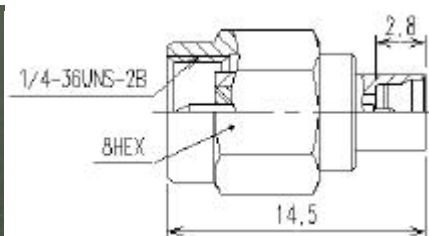
### CONVERSION ADAPTER

Mating area  
PO40G plug – SMA jack  
(DC ~ 26.5GHz)



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Mating area  
PO40G jack – SMA plug  
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### HERMETIC RECEPTACLE

