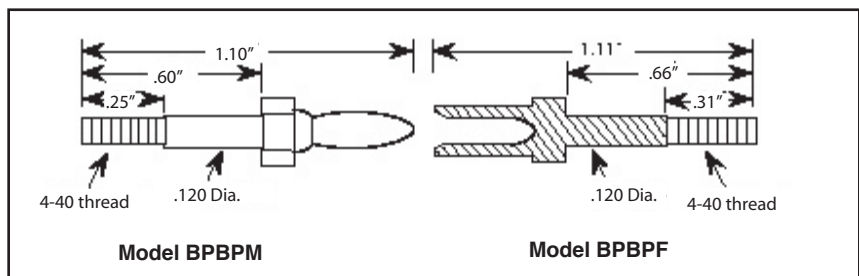
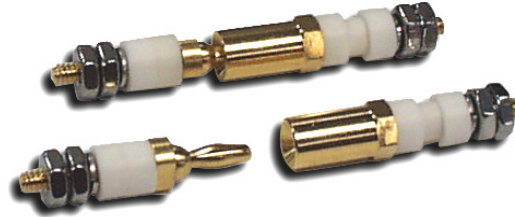


# UHV-Compatible Banana Plugs

## ELECTRICAL CONNECTIONS UNDER ULTRA-HIGH VACUUM

- ➔ **Reliable UHV electrical connections**
- ➔ **Connections can be repeatedly engaged and disengaged**
- ➔ **Flexibility of design allows easy alignment**



### Typical Applications

**A wide range of uses include:**

- ➔ **Resistive heating, direct intrinsic heating and e-beam setups**
- ➔ **Sample biasing**
- ➔ **“Power-up” of devices within vacuum systems, or for heating**
- ➔ **Current measurements, such as Faraday cups**
- ➔ **Measure sample temperature with a thermocouple**
- ➔ **Evaporate materials**

The Models BPBPM and BPBPF Banana Plugs are available for use where reliable electrical connections under ultra-high vacuum conditions are required. Manufactured from BeCu and 304ss, they are gold coated for enhanced electrical performance and reliability and include ceramic insulators. The possibility of zinc outgassing from the brass used in traditional connectors in the vacuum chamber has been completely eliminated. The ceramic insulators provided attach the male plug firmly and the female socket loosely to allow self alignment.

SPECIFICATIONS	
Material	Au, BeCu, 304ss and ceramic
Vacuum Range	1 x 10 <sup>-11</sup> Torr
Engagement force	.5 to .75 pounds max per connector
Electrical rating	15kV maximum, 15 Amperes per connector
Dimensions	See drawing

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