

# CONNECTOR GAGE KIT

## PRECISION 14mm AND 7mm CO-PLANAR CONNECTORS



Model A024

### Description

Maury's model A024 connector gage is designed to measure the location of the inner conductor from the outer conductor mating plane of precision 14mm and 7mm co-planar connectors and transmission lines, for example, the "A" dimension in **Figure 1**. This relationship is particularly critical in precision applications where an excessive recessed condition of the center conductor will cause unwanted reflections and a protruding condition could result in damage to mating equipment. This connector gage provides a convenient, easy to use and highly reliable means for testing this co-planar relationship with exceptional accuracy.

The gaging operation is accomplished by means of a precision 2-1/4" diameter dial indicator assembly which is zero set to a co-planar condition and when engaged to a connector will indicate the deviation of the inner conductor from the outer conductor mating plane. The accuracy of measurement when this gage is properly employed is better than  $\pm 0.0002$  with 0.00002 resolution (in inches). All functional gage parts are made from stainless steel in order to provide

long wearing characteristics. Model A024 is provided in a wooden instrument case with operating instructions.

### Application

Maury's model A024 connector gage will check the center conductor location of 14mm and 7mm General Precision Connectors (GPC) and Laboratory Precision Connectors (LPC) such as the GR900-BT connector and the APC7 connector, etc. In addition, this gage is useful in the assembly process for gaging the co-planar relationship of airline assemblies prior to installing the connector.

Precision co-planar connectors depend very heavily on a near co-planar condition between inner and outer conductors for electrical performance. We recommend that all precision connectors be tested for compliance to their co-planar interface requirements prior to being used and periodically on a routine basis to assure continued performance and to prevent possible damage to other equipment.

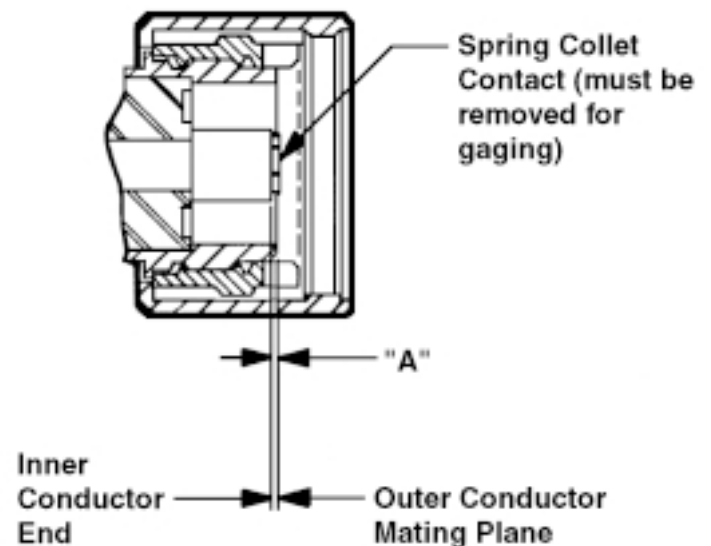


Figure 1: GR900-BT connector