

BMA Blindmate RF Connectors

Winchester Electronics



The Winchester Electronics BMA Blindmate RF Connector is designed to the interface dimensions of MIL-STD-348.

Winchester's BMA Blindmate connectors are designed for use in blindmate applications where multiple RF connectors need to be mated simultaneously. Typical applications include wireless base station infrastructure equipment, microwave subsystems, test and measurement, and military radar and satellite communication equipment.

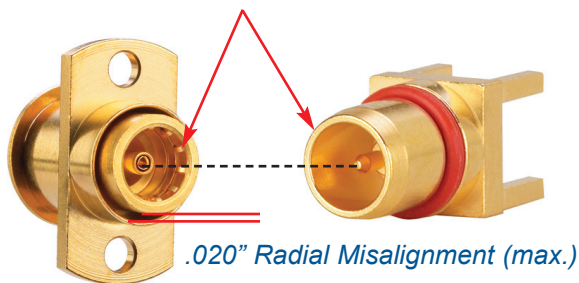
This blindmate capability is accomplished by the slide-on, non-locking BMA interface - designed to allow a maximum of .020" radial and .060" axial misalignment. Winchester's BMA interface also includes a unique First-Make-Last-Break (FMLB) ground contact, which allows modular components to be plugged and unplugged or "hot swapped" in and out of a live system.

PRODUCT FEATURES

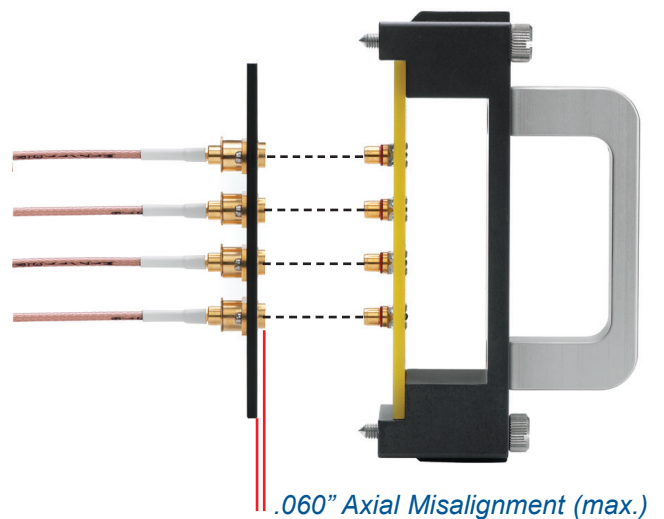
Product features include:

- Impedance: 50 Ohms
- Frequency Range: 0 - 18.0 GHz
- VSWR: RG-402 1.02 + .005f (GHz)
RG-405 1.02 + .008f (GHz)
- Cable connectors feature captive center contact
- Insertion Force: 3.0 lbs. maximum
- Durability: 500 cycles minimum
- Allowable Misalignment:
0.020" radial, 0.060" axial (float mount)
0.008" radial, 0.015" axial (rigid mount)

First-Mate-Last-Break Ground Contact



Simultaneously Mate Multiple Connectors



Winchester offers a complete product line of BMA Blindmate RF connectors and can also provide custom BMA cable assemblies. Product styles include:

- Straight, right-angle, and right-angle bulkhead cable plugs
- Straight bulkhead cable receptacles
- Straight snap-in, right-angle snap-in, and 2-hole flange mount receptacles with float
- 2-hole and 4-hole panel mount plugs and receptacles
- Vertical, right-angle, and right-angle bulkhead PCB plugs
- Vertical and right-angle PCB receptacles

Cable connectors are available for the following cable sizes and termination techniques:

- | | | | |
|--------------|--------|------------|-----------------|
| • Flexible | RG-316 | .102" O.D. | Solder / Crimp |
| • Semi-rigid | RG-402 | .141" O.D. | Solder |
| • Semi-rigid | RG-405 | .085" O.D. | Solder / Solder |