

900 Series SMA

50 Ohm Cable and PCB Connectors



Product Description

Winchester's Bomar brand 900 Series 50 Ohm SMA Connectors can be used in a wide range of applications including Test and Measurement, Mil-Aero, Satellite, and Wireless Communication Equipment.

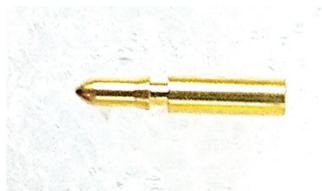
Our 900 Series 50 Ohm SMA Connectors are designed in accordance with MIL-STD 348 and feature a .250-36 threaded coupling interface designed for a frequency range of DC to 18 GHz.

Male cable plug connectors are available in straight and right-angle designs for popular flexible and semi-rigid cables.

Printed Circuit Board (PCB) connectors are available in straight and right-angle through-hole solder, and also in our unique E-Snap® Edge-Mount design.



- Threaded coupling ensures connector will not decouple in vibration-intensive applications



- Straight crimp plug center contact features a retention barb which snaps into the insulator to prevent the pin contact from backing out of the connector.



- E-Snap® Edge-Mount connectors provide superior RF performance versus traditional right-angle connects, as a straight contact provides the best transmission path

Specifications

Electrical

| | |
|------------------------|-----------------|
| Impedance: | 50 Ohms |
| Polarity: | Standard |
| Frequency (GHz): | |
| Flexible Cable | 0 to 12.5 GHz |
| Semi-Rigid | 0 to 18 GHz |
| VSWR: Straight | 1.15 Max |
| Right-Angle | 1.2 Max |
| Dielectric | |
| Withstanding Voltage: | |
| Flexible | 1000 VRMS |
| Semi-Rigid | 1500 VRMS |
| Contact Resistance: | |
| Center | ≤ 2 mΩ |
| Outer | ≤ 2 mΩ |
| Insulation Resistance: | 5000 mΩ Min |
| Temperature Range: | -65°C to +165°C |

Mechanical

| | |
|-------------------------|----------------|
| Coupling Mating Torque: | 7-15 in-lbs. |
| Cable Retention: | |
| Flexible | 60 lbs. Min |
| Semi-Rigid | 80 lbs. Min |
| Center Contact: | Solder / Crimp |
| Connector Durability: | 500 Cycles Min |

Material

| | |
|---------------------|----------------|
| Insulator Material: | PTFE |
| Body Material: | Brass |
| Body Finish: | Nickel or Gold |
| Contact Material: | Male Brass |
| | Female BECU |
| Contact Finish: | Gold |
| RoHS Compliant: | Yes |

Part Numbering

| Bomar Part Number | Straight and Right-Angle Cable Plugs | Crimp Tool | Hex Size |
|-------------------|--|------------|---------------|
| 910A204M | Straight Plug for RG174, RG316, LMR100 | BDHD200 | Solder / .128 |
| 910A204F | Straight Plug for RG58, RG58A, RG141, LMR195 | BDHD200 | Solder / .213 |
| 910A204P | Straight Plug for RG55, RG142, RG223, RG400 | BDHD200 | Solder / .213 |
| 910A704HV | Straight Plug RG402 (use cable for center contact) | Solder | Solder |
| 910A704B | Straight Plug RG402 Cable (with center contact supplied) | Solder | Solder |
| 910A704A | Straight Plug RG405 Cable (with center contact supplied) | Solder | Solder |
| 913A204M | Right-Angle Plug for RG174, RG316, LMR100 | BDND200 | Solder / .128 |
| 913A204F | Right-Angle Plug for RG58, RG58A, RG141, LMR195 | BDHD200 | Solder / .213 |
| 913A204P | Right-Angle Plug for RG55, RG142, RG223, RG400 | BDHD200 | Solder / .213 |
| 913A704B | Right-Angle Plug for RG402 | Solder | Solder |
| 913A704A | Right-Angle Plug for RG405 | Solder | Solder |

| Bomar Part Number | Printed Circuit Board Connectors | PCB Thickness | Packaging |
|-------------------|--|---------------|-----------|
| 961A514 | Vertical, SMA, Jack, 0.155" Solder Tail | 0.062" | Single |
| 964A595 | Right-Angle, SMA, Jack, 0.155" Solder Tail | 0.062" | Single |
| 960A514 | Vertical, SMA, Plug, 0.155" Solder Tail | 0.062" | Single |
| 963A595 | Right-Angle, SMA, Plug, 0.155" Solder Tail | 0.062" | Single |
| 961E504 | E-Snap® Edge-Mount, SMA, Jack | 0.062" | Single |
| 962E504 | E-Snap® Edge-Mount, SMA, Plug | 0.062" | Single |
| 961E504HF | High Frequency E-Snap® Jack (26.5 GHz) | 0.062" | Single |



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