

900 Series SMA

50 Ohm Cable and PCB Connectors



Bomar products, like the 900 Series 50 Ohm SMA Connectors, are now sold under the Win™ brand from Winchester Interconnect™.

Product Description

Winchester Interconnect's 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 connectors, as a straight contact provides the best transmission path.

 **Winchester**
Interconnect.

We Energize Innovation.

Specifications

| | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Electrical Impedance 50 Ohms Polarity Standard Frequency Range Flexible Cable 0 to 12.5 GHz Semi-Rigid 0 to 18 GHz VSWR Straight 1.15 Max R/A 1.2 Max | Dielectric Withstanding Voltage Flexible 1000 VRMS Semi-Rigid 1500 VRMS Contact Resistance Center ≤ 2 Megohms Outer ≤ 2 Megohms Insulation Resistance 5000 Megohms Min | 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 Body Material Brass Body Finish Nickel or Gold Contact Material Male Brass Female BECU Insulator Material PTFE Contact Finish Gold | Environmental Temperature Range -65°C to +165°C |
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Part Numbers

| Part Number | Straight and Right-Angle Cable Plugs | Crimp Tool | Hex Size |
|-------------|----------------------------------------------------------|------------|----------------|
| 910A204M | Straight Plug for RG174, RG316, LMR100 | BDHD200 | Solder / 0.128 |
| 910A204F | Straight Plug for RG58, RG58A, RG141, LMR195 | BDHD200 | Solder / 0.213 |
| 910A204P | Straight Plug for RG55, RG142, RG223, RG400 | BDHD200 | Solder / 0.213 |
| 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 | BDHD200 | Solder / 0.128 |
| 913A204F | Right-Angle Plug for RG58, RG142, RG223, LMR195 | BDHD200 | Solder / 0.213 |
| 913A204P | Right-Angle Plug for RG55, RG142, RG223, RG400 | BDHD200 | Solder / 0.213 |
| 913A704B | Right-Angle Plug for RG402 | Solder | Solder |
| 913A704A | Right-Angle Plug for RG405 | Solder | Solder |

| 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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