

# 1000 Series SMB

50 Ohm Cable and PCB Connectors



Bomar products, like the 1000 Series 50 Ohm SMB Connectors, are now sold under the Win™ brand from Winchester Interconnect™.

## Product Description

Winchester Interconnect's 1000 Series 50 Ohm SMB Connectors can be used in a wide range of applications including Test and Measurement, Mil-Aero, Satellite Communication, Wireless Communication, and Medical Equipment.

Our 1000 Series SMB Connectors are designed in accordance with MIL-STD 348 and feature a "Snap-On" interface designed for a frequency range of DC to 4 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.



- Quick connect disconnect snap-on mating reduces installation time.



- Jack connectors have a male center contact. Plug connectors have a female center contact.



- SMB connectors are 30% smaller than SMA connectors.

## Specifications

<b>Electrical Impedance</b> 50 Ohms  <b>Frequency</b> DC to 4 GHz  <b>Working Voltage</b> ≥ 250 VRMS  <b>Dielectric Withstanding Voltage</b> 1000 VRMS at sea level  <b>VSWR</b> <i>Straight</i> 1.3 Max <i>Right-Angle</i> 1.5 Max	<b>Contact Resistance</b> Center ≤ 6 Megohms Outer ≤ 1 Megohms  <b>Insulation Resistance</b> 5000 Megohms Min  <b>Mechanical Contact Retention</b> ≥ 4 lbs.  <b>Engagement Force</b> ≤ 17 lbs.	<b>Disengagement Force</b> ≥ 1.8 lbs.  <b>Connector Durability</b> 500 Cycles Min  <b>Material</b> <b>Body &amp; Outer Contact</b> Brass Nickel or Gold Plated  <b>Male Contact</b> Brass Gold Plated  <b>Female Contact</b> BECU Gold Plated	<b>Insulator</b> PTFE  <b>Crimp Ferrule</b> Copper/Brass Nickel/ Gold Plated  <b>Environmental Temperature Range</b> -55°C to +155°C  <b>Thermal Shock</b> MIL-STD-202, Method 107  <b>Moisture Resistance</b> MIL-STS-202, Method 105	<b>Corrosion</b> MIL-STD-202, Method 101  <b>Mechanical Shock</b> MIL-STD-202, Method 101  <b>Humidity</b> MIL-STD-202, Method 101
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## Part Numbers

Part Number	Straight and Right-Angle Cable Plugs	Crimp Tool	Hex Size
1010A204F	Straight Cable Plug for RG178, RG196	BDHD200	Solder / 0.128
1010A204M	Straight Cable Plug for RG174, RG316, LMR100	BDHD200	Solder / 0.128
1010A204MS	Straight Cable Plug for RD316	BDHD200	Solder / 0.151
1013A204F	Right-Angle Cable Plug for RG178, RG196	BDHD200	Solder / 0.128
1013A204M	Right-Angle Cable Plug for RG174, RG316, LMR100	BDHD200	Solder / 0.128
1013A204MS	Right-Angle Cable Plug for RD316	BDHD200	Solder / 0.151

Part Number	Bulkhead Cable Jacks	Crimp Tool	Hex Size
1021A204M	Straight Bulkhead Jack for RG174, RG316, LMR100	BDHD200	Solder / 0.128
1021A204MS	Straight Bulkhead Jack for RD316	BDHD200	Solder / 0.151

Part Number	Printed Circuit Board Connectors	PCB Thickness	Packaging
1061A514	Vertical, SMB, Jack, 0.155" Solder Tail	0.062"	Single Pack
1064A595	Right-Angle, SMB, Jack, 0.155" Solder Tail	0.062"	Single Pack
1063A595	Right-Angle, SMB, Plug, 0.155" Solder Tail	0.062"	Single Pack
1060A514	Vertical, SMB, Plug, 0.155" Solder Tail	0.062"	Single Pack

Part Number	2- and 4- Hole Flange Solder Cup	Mounting
1017A524	Square Flange Jack Solder Cup	4-Hole Pattern
1017B524	Rectangular Flange Jack Solder Cup	2-Hole Pattern

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