



# 1000 Series SMB

50 Ohm Cable and PCB Connectors



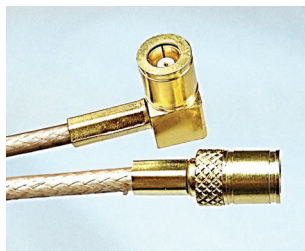
## Product Description

Winchester's Bomar brand 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.

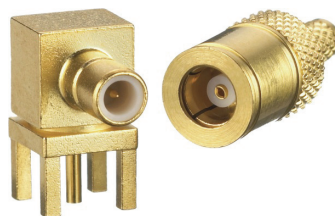
Our 1000 Series SMB Connectors are designed in accordance with MIL-STD 348 and feature a "Snap-On" interface designed for a frequency range of DC to 4 GHz.

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

### Electrical

Impedance:	50 Ohms
Frequency (GHz):	DC to 4 GHz
Working Voltage:	≥ 250 VRMS
Dielectric	
Withstanding Voltage :	1000 VRMS at Sea Level
VSWR: Straight	1.3 Max
Right Angle	1.5 Max
Contact Resistance:	Center Contact: ≤ 6 mΩ Outer Contact: ≤ 1 mΩ
Insulation Resistance:	5000 mΩ Min

### Mechanical

Contact Retention:	≥ 4 lbs.
Engagement Force:	≤ 14 lbs.
Disengagement Force:	≥ 1.8 lbs.
Connector Durability:	500 Cycles Min
Temperature:	-65°C to +165°C

### Environmental

Temperature Range:	-55°C to +155°C
Thermal Shock:	MIL-STD-202, Method 107
Moisture Resistance:	MIL-STS-202, Method 105
Corrosion:	MIL-STD-202, Method 101
Mechanical Shock:	MIL-STD-202, Method 101
Humidity:	MIL-STD-202, Method 101

### Material

Body & Outer Contact:	Brass Nickel or Gold Plated
Male Contact:	Brass Gold Plated
Female Contact :	BECCU Gold Plated
Insulator:	PTFE
Crimp Ferrule:	Copper / Brass Nickel / Gold Plated
RoHS Compliant:	Yes

## Part Numbers

Bomar Part Number	Straight and Right-Angle Cable Plugs	Crimp Tool	Hex Size
1010A204F	Straight Cable Plug for RG178, RG196	BDHD200	Solder / .128
1010A204M	Straight Plug for RG174, RG316, LMR100	BDHD200	Solder / .128
1010A204MS	Straight Cable Plug for RD316	BDHD200	Solder / .151
1013A204F	Right-Angle Cable Plug for RG178, RG196	BDHD200	Solder / .128
1013A204M	Right-Angle Plug for RG174, RG316, LMR100	BDHD200	Solder / .128
1013A204MS	Right-Angle Cable Plug for RD316	BDHD200	Solder / .151

Bomar Part Number	Bulkhead Cable Jacks	Crimp Tool	Hex Size
1021A204M	Straight Bulkhead Jack for RG174, RG316, LMR100	BDHD200	Solder / .128
1021A204MS	Straight Bulkhead Jack for RD316	BDHD200	Solder / .151

Bomar 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

Bomar 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



Winchester Electronics  
 199 Park Road Extension, Suite 104  
 Middlebury, Connecticut 06762  
 203.741.5400 Phone  
 203.741.5500 Fax  
[www.winchesterelectronics.com](http://www.winchesterelectronics.com)