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Search Results for: Straight Crimp Jack - Flexible Cable

Please note: Images are for reference only

Part Number: 142190
Family/Series: SMB/SMC Coaxial Connectors
Product Type: CRIMP ATTACHMENTS FOR FLEXIBLE & SEMI-RIGID CABLE
Description: Straight Crimp Jack - Flexible Cable
SMB CONNECTORS
Cable: 316/U DOUBLE BRAIDED **

Cable Group: 05A
Finish: Gold
Insulation: Teflon
Impedance: 50 ohms
Crimp Tool: C

Add to Cart | Product Specs | Customer Drawing

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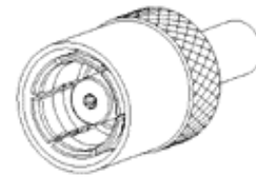
SMB connector series

Features & Benefits | Applications | 50 Ω Specs | 75 Ω Specs | 75 Ω High Density Specs | Assembly Instructions

The SMB name derives from SubMiniature B (the second subminiature design). Developed in the 1960's, the SMB is a smaller version of the SMA with snap-on coupling. Amphenol's SMB connectors conform to the requirements of MIL-C-39012, and the interface is in compliance with MIL-STD-348. Available in 50 Ω and 75 Ω impedance, the SMB provides broadband capability through 4 GHz with a snap-on connector design and utilizes die cast components on non-critical areas to provide a low-cost solution.



SMB/SMC Coaxial Connectors

CRIMP ATTACHMENTS FOR FLEXIBLE & SEMI-RIGID CABLE

Straight Crimp Plug - Flexible Cable
Straight Solder Plug - Semi-Rigid Cable
Straight Crimp Jack - Flexible Cable
Straight Crimp Jack - Flexible Cable
Straight Solder Jack - Semi-Rigid Cable
Right Angle Cable Plug - Flexible Cable
Right Angle Cable Plug - Semi-Rigid Cable
Bulkhead Feedthrough Cable Jack — Flexible Cable
Bulkhead Feedthrough Cable Jack — Flexible Cable
Right Angle Crimp Jack - Flexible & Semi-Rigid Cable
Right Angle Bulkhead Crimp Jack — Flexible Cable

CRIMP ATTACHMENTS FOR FLEXIBLE CABLE - 75 OHM SNAP LOCK

Straight Crimp Plug - Snap Lock
Right Angle Crimp Plug - Snap Lock

CLAMP TERMINATIONS FOR FLEXIBLE CABLE

Straight Cable Plug
Straight Cable Jack
Bulkhead Feedthrough Cable Jack
Right Angle Cable Plug

PRINTED CIRCUIT BOARD/STRAIGHT TERMINALS

Straight Plug For P.C. Board
Straight Jack For P.C. Board
Straight Bulkhead Jack For P.C. Board
Right Angle Plug For P.C. Board
Right Angle Jack For P.C. Board
Right Angle Bulkhead Jack For P.C. Board

BULKHEAD MOUNT/SOLDER POT TERMINALS

Bulkhead Jack Receptacle - Front Mount
Bulkhead Jack Receptacle - Rear Mount
Bulkhead Recessed Jack Receptacle
Press Fit Jack Receptacle

PANEL MOUNT/SOLDER POT TERMINALS

Panel Mount Jack Receptacle - 4 Hole Square Flange
Panel Mount Jack Receptacle — 2 Hole Flange

ADAPTERS

Plug-To-Plug Adapter
Jack-To-Jack Adapter

Plug-To-Jack Adapter - Right Angle

Jack-To-Jack Adapter - Bulkhead

Features & Benefits

- Broadband performance with low reflection DC to 4 GHz provides low cost connector combined with high quality.
- Quick connect/disconnect snap-on mating reduces installation time.
- Various plating options in nickel, gold, and tin lead. Selective plating provides corrosion resistance finish as well as good solderability characteristics.
- SMB PCB slide-on plug and jack allows board-to-board mounting with a low insertion force. This is ideal for mating a high number of connectors on a pair of PCB's.

Applications

- Automotive
- Automotive (GPS)
- Base Stations
- Cable Assemblies
- Components
- Instrumentation
- PC/LAN
- Process Controls
- Radio Boards
- Surge Protection
- Telecom
- Test and Measurement
- Video Systems

50 Ω SMB Specifications

Electrical	
Impedance	50 Ω
Frequency Range	0-4 GHz with low reflection; usable to 10.0 GHz
Voltage Rating for RG-188/U Cable	335 volts at sea level and 85 volts at 70,000 feet
Dielectric Withstanding Voltage	RG-196: 750 VRMS; RG-188: 1,000 VRMS
VSWR	Straight connector, RG-196/U: 1.30 + .04 f (GHz) Right angle connector, RG-196/U: 1.45 + .06 f (GHz) Straight connector, RG-188/U: 1.25 + .04 f (GHz) Right angle connector, RG-188/U: 1.35 + .04 f (GHz)
Contact Resistance	Center contact: 6.0 mΩ initial, 8.0 after environmental; Outer contact: 1.0 mΩ initial, 1.5 after environmental Braid to body: 1.0 mΩ initial, after environmental N/A
Insulation Resistance	1,000 MΩ minimum
Insertion Loss	Straight connector: 0.30 dB @ 1.5 GHz Right angle connector: 0.60 dB @ 1.5 GHz
RF Leakage	-55 dB minimum @ 2-3 GHz
Mechanical	
Mating	Snap-on coupling per MIL-STD-348
Braid/Jacket Cable Affixment	Hex crimp
Center Conductor Cable Affixment	Solder
Contact Captivation	All types unless noted otherwise
Cable Retention	Equal to breaking strength of cable employed
Engagement Forces	Engagement: 14 lbs maximum Disengagement: 2 lbs minimum After 500 matings, 14 lbs maximum engagement and disengagement
Connector Durability	500 mating cycles minimum
Material	
Center Contact	Female: beryllium copper, gold-plated Male: brass or beryllium copper, gold-plated
Outer Contact Plating	Nickel or gold plating as indicated
Body	Brass per QQB-626, or zinc per ASTM B86-71
Body Plating	Nickel or gold plating as indicated
Insulator	TFE
Crimp Ferrule	Annealed copper alloy

Environmental	
Temperature Range	- 65°C to +165°C
Thermal Shock	MIL-STD-202 method 107, test condition B (except high temperatures @ 200°C
Shock	MIL-STD-202 method 202, method 13, snap-on, test condition B; 75 G's @ 6 milliseconds ½ sine
Vibration	MIL-STD-202 method 204, snap-on, test condition B; (15 G's)
Corrosion	MIL-STD-202 method 101, test condition B. 5% salt solution

Note: These characteristics are typical but may not apply to all connectors.

75 Ω SMB Specifications

Electrical	
Impedance	75 Ω
Frequency Range	0-4 GHz with low reflection; usable to 10.0 GHz
Voltage Rating for RG-188/U Cable	335 volts at sea level and 85 volts at 70,000 feet
Dielectric Withstanding Voltage	1,000 VRMS
RF High Potential Withstanding Voltage	RF-195/U series: 500 VRMS
Corona Level	RG-195/U series: 400 volts minimum @ 70,000 ft
VSWR	Straight connector, RG-196/U: 1.30 + .04 f (GHz) Right angle connector, RG-196/U: 1.45 + .06 f (GHz) Straight connector, RG-188/U: 1.25 + .04 f (GHz) Right angle connector, RG-188/U: 1.35 + .04 f (GHz)
Contact Resistance	Center contact: 6.0 mΩ initial, 8.0 after environmental; Outer contact: 1.0 mΩ initial, 1.5 after environmental Braid to body: 1.0 mΩ initial, after environmental N/A
Insulation Resistance	1,000 MΩ minimum
Insertion Loss	Straight connector: 0.30 dB @ 1.5 GHz Right angle connector: 0.60 dB @ 1.5 GHz
RF Leakage	-55 dB minimum @ 2-3 GHz
Mechancial	
Mating	Snap-on coupling per MIL-STD-348
Braid/Jacket Cable Affixment	Hex crimp
Center Conductor Cable Affixment	Solder
Contact Captivation	All types unless noted otherwise
Cable Retention	Equal to breaking strength of cable employed
Engagement Forces	Engagement: 14 lbs maximum Disengagement: 2 lbs minimum After 500 matings, 14 lbs maximum engagement and disengagement
Connector Durability	500 mating cycles minimum
Material	
Center Contact	Female: beryllium copper, gold-plated Male: brass or beryllium copper, gold-plated
Outer Contact Plating	Nickel or gold plating as indicated
Body	Brass per QQB-626
Body Plating	Nickel or gold plating as indicated
Insulator	TFE
Crimp Ferrule	Annealed copper alloy
Environmental	
Temperature Range	- 65°C to +165°C
Thermal Shock	MIL-STD-202 method 107, test condition B (except high temperatures @ 200°C
Shock	MIL-STD-202 method 213, snap-on, test condition B; 75 G's @ 6 milliseconds ½ sine
Vibration	MIL-STD-202 method 202, snap-on, test condition B; (15 G's)
Corrosion	MIL-STD-202 method 101, test condition B. 5% salt solution