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Search Results for: Straight Crimp Plug - Flexible Cable

Please note: Images are for reference only



Part Number: 142222
Family/Series: SMB/SMC Coaxial Connectors
Product Type: CRIMP ATTACHMENTS FOR FLEXIBLE & SEMI-RIGID CABLE
Description: Straight Crimp Plug - Flexible Cable
SMC Connectors
Cable: AT&T735A/B735A1 **

Cable Group: 19
Finish: Gold
Insulation: Teflon
Impedance: 75 ohms
Crimp Tool: [B](#)

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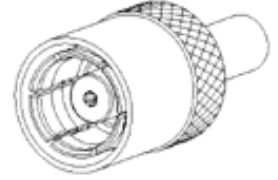
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SMB connector series

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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](#)

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

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
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
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