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Search Results for: Right Angle Cable Plug - Flexible Cable

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Part Number: 142194
Family/Series: SMB/SMC Coaxial Connectors
Product Type: CRIMP ATTACHMENTS FOR FLEXIBLE & SEMI-RIGID CABLE
Description: Right Angle Cable Plug - Flexible Cable
Cable: 174/188A/316/B7805A **

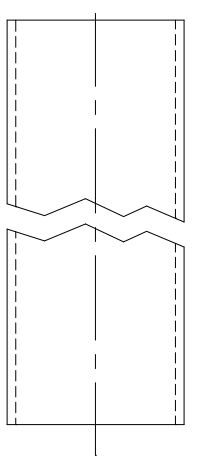
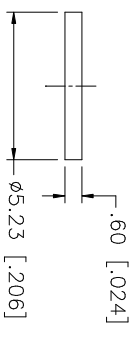
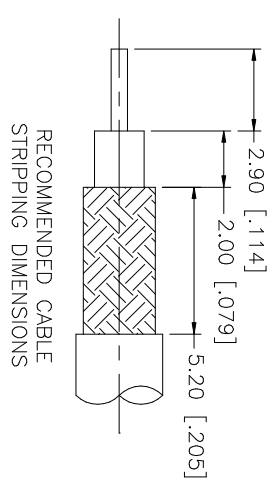
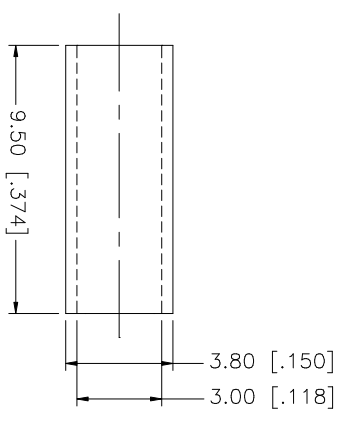
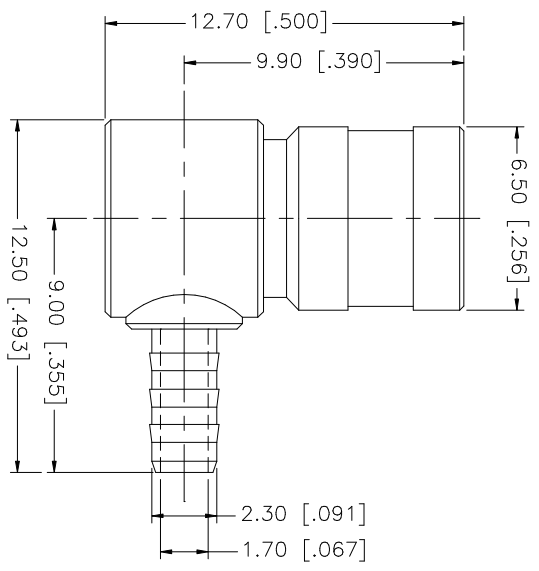
Cable Group: 05
Finish: Gold
Insulation: Teflon
Impedance: 50 ohms
Crimp Tool: [B](#)

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| REV. | DATE | DESCRIPTION |
|------|----------|-----------------|
| NC | 02/24/03 | INITIAL RELEASE |



(HEAT SHRINK)

- NOTE:
1. CRIMPED FERRULE
HEX CRIMP SIZE .128"
 2. CONTACT PIN TO SOLDER

| QTY | DESCRIPTION | MATERIAL | FINISH | DO NOT SCALE DRAWING | APPROVALS | DATE | PART DESCRIPTION | | |
|-----|------------------|-------------|---------|--|-------------------|------------|---|--------|----------|
| 1 | HEAT SHRINK TUBE | | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS IN [] ARE IN INCHES AND FOR CUSTOMER REFERENCE ONLY. TOLERANCES FOR MILLIMETERS ARE: 0.5 - 8mm ± 0.20mm 8 - 30mm ± 0.40mm 30 - 120mm ± 0.50mm | G.R.S. | 02/24/03 | SMB R/A CRIMP PLUG (FOR RG-174/U, 188A/U, 316/U CABLE) | | |
| 1 | COVER | BRASS | GOLD | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS IN [] ARE IN INCHES AND FOR CUSTOMER REFERENCE ONLY. TOLERANCES FOR MILLIMETERS ARE: 0.5 - 8mm ± 0.20mm 8 - 30mm ± 0.40mm 30 - 120mm ± 0.50mm | CHECKED | | | | |
| 1 | FERRULE | COPPER | GOLD | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS IN [] ARE IN INCHES AND FOR CUSTOMER REFERENCE ONLY. TOLERANCES FOR MILLIMETERS ARE: 0.5 - 8mm ± 0.20mm 8 - 30mm ± 0.40mm 30 - 120mm ± 0.50mm | ISSUED | | | | |
| 1 | CONTACT PIN | BER. COPPER | GOLD | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS IN [] ARE IN INCHES AND FOR CUSTOMER REFERENCE ONLY. TOLERANCES FOR MILLIMETERS ARE: 0.5 - 8mm ± 0.20mm 8 - 30mm ± 0.40mm 30 - 120mm ± 0.50mm | SHEET | 1 OF 1 | | | |
| 1 | INSULATOR | TEFLON | NATURAL | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS IN [] ARE IN INCHES AND FOR CUSTOMER REFERENCE ONLY. TOLERANCES FOR MILLIMETERS ARE: 0.5 - 8mm ± 0.20mm 8 - 30mm ± 0.40mm 30 - 120mm ± 0.50mm | | | | | |
| 1 | BODY | BRASS | GOLD | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS IN [] ARE IN INCHES AND FOR CUSTOMER REFERENCE ONLY. TOLERANCES FOR MILLIMETERS ARE: 0.5 - 8mm ± 0.20mm 8 - 30mm ± 0.40mm 30 - 120mm ± 0.50mm | | | | | |
| 1 | HOUSING | DIE CAST | GOLD | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS IN [] ARE IN INCHES AND FOR CUSTOMER REFERENCE ONLY. TOLERANCES FOR MILLIMETERS ARE: 0.5 - 8mm ± 0.20mm 8 - 30mm ± 0.40mm 30 - 120mm ± 0.50mm | | | | | |
| | DESCRIPTION | MATERIAL | FINISH | DO NOT SCALE DRAWING | CAD FILE | DWG. NO. | REV. NC | SIZE A | SCALE NA |
| | | | | | C:/142/142194.DWG | 142194.DWG | | | |

Amphenol Connex

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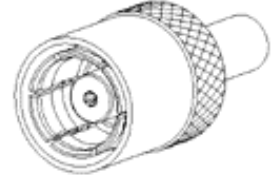
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SMB connector series

[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](#)

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 |