75 Ohm Subminiature RF Connectors
Snap-on or Screw-on Mating
Matched Impedance
Positive-Locking Version
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**APPLIED ENGINEERING PRODUCTS**
104 John W. Murphy Drive • P.O. Box 510 • New Haven, CT 06513

(203) 776-2813 • FAX (203) 776-8294

www.aepconnectors.com • e-mail: aepsales@aepconnectors.com
# 75Ω Specifications

## Specifications

### Materials:
- **Body components, male contacts**: Brass per ASTM-B-16, alloy 360, 1/2 hard.
- **Female contacts**: Beryllium copper per ASTM-B-196, Condition HT. **Insulators**: Teflon TFE per ASTM-D-1710.
- **Center contacts**: Gold plated per current revision of MIL-PRF-39012*
- **Other metal parts**: Gold or nickel plated to meet current MIL-PRF-39012 corrosion requirements.*

### Electrical:
- **Impedance**: 75Ω. **Frequency range**: DC–2 GHz. **Insulation Resistance**: 1,000 megohms minimum.
- **Voltage Rating**: 250VRMS @ sea level. **Dielectric Withstanding Voltage**: 2000VRMS @ sea level (RG-180B cable).
- **Contact Resistance**:
  - Straight connectors: Initial: 6 milliohms maximum; after environmental test conditions: 8 milliohms maximum.
  - Right angle connectors: Initial: 12 milliohms maximum; after environmental test conditions: 16 milliohms maximum.
- **Corona level**: 350V @70,000 ft. (RG-180B cable). **RF highpot**: 1000 VRMS @ 5 MHz.
- **RF leakage**: Screw-on: -60 dB min @ 2–3 GHz; Snap-on: -55 dB min @ 2–3 GHz.
- **Insertion loss**: .30 dB max (straight connectors), .60 dB max (right angle connectors) @ 1.5 GHz.

### Mechanical:
- **Force to engage**: Snap-on: 14 pounds max. **Mating torque**: Screw-on: 90 inch-ounces.
- **Contact retention**: 2 pounds min axial force. **Durability**: 500 mating cycles.
- **Cable pullout resistance**: 18 pounds min. **Coupling nut pulloff resistance (screw-on)**: 35 pounds min.

### Environmental (MIL-STD-202):
- **Temperature range**: -65˚ C to +165˚ C.
- **Corrosion**: Method 101, condition B, 5% salt solution.
- **Vibration (Method 204)**: Condition B.
- **Mechanical shock (Method 213)**: Condition B. **Thermal shock (Method 107)**: Condition B.

*These specifications change periodically with updates to MIL-PRF-39012 requirements. Contact factory for latest specifications.

## Interface Dimensions

### Snap-on

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Male Contact ø Dia (inch)</th>
<th>Female Contact ø Dia (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack</td>
<td>0.065 MIN to 0.070</td>
<td>0.095 to 0.105</td>
</tr>
<tr>
<td></td>
<td>0.027 to 0.037</td>
<td>0.020 to 0.026</td>
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</tbody>
</table>

### Screw-on

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Male Contact ø Dia (inch)</th>
<th>Female Contact ø Dia (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug</td>
<td>0.056 MIN to 0.061</td>
<td>0.070 to 0.075</td>
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<tr>
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<td>0.006 to 0.010</td>
<td>0.011 to 0.015</td>
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</table>

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Male Thread Pitch (inch)</th>
<th>Female Thread Pitch (inch)</th>
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<tr>
<td>5/16-32 UNF - 2A</td>
<td>0.234 MIN</td>
<td>0.135</td>
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<td></td>
<td>0.131 DIA</td>
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</table>

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<td>0.131 DIA</td>
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</table>
**75Ω Cable Attachment Methods**

All 75Ω cable connectors in this catalog have captivated contacts which are soldered to the cable center conductor. Both crimp and clamp types for flexible cable grip the cable braid with a force greater than the breaking strength of the braid.

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**Clamp Type For Flexible Cable**

These connectors can be assembled without special tooling, and are field replaceable. They provide metal-to-metal clamping of the cable braid.

---

**Crimp Type For Flexible Cable**

Crimping the cable braid is the most reliable and repeatable method of cable assembly, and provides support for the cable during flexure. AEP crimp type connectors are assembled quickly and easily using readily-available commercial or MIL crimp tools.
75Ω Screw-on Cable Plugs
Click on connector picture to go directly to cable assembly instructions

**Straight Plugs**

**Straight Female Cable Plug**
Clamp type for flexible cable:
1702-1551-0XX (Gold plated)
1702-7551-0XX (Nickel plated)

**Right Angle Plugs**

**Right Angle Female Cable Plug**
Clamp type for flexible cable:
1705-1551-0XX (Gold plated)
1705-7551-0XX (Nickel plated)

---

<table>
<thead>
<tr>
<th>GROUP</th>
<th>CABLE TYPES</th>
<th>GROUP</th>
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<th>GROUP</th>
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<tbody>
<tr>
<td>03</td>
<td>RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189</td>
<td>04</td>
<td>RG180, RG195, M17/95</td>
<td>07</td>
<td>RG59, RG62, M17/29, M17/30</td>
</tr>
</tbody>
</table>

APPLIED ENGINEERING PRODUCTS
(203) 776-2813 • FAX (203) 776-8294 www.aepconnectors.com • aepsales@aepconnectors.com
Straight Jacks

**Straight Male Cable Jack**

Clamp type for flexible cable:
- 1701-1551-0XX (Gold plated)
- 1701-7551-0XX (Nickel plated)

Bulkhead Mounted Jacks

**Straight Male Bulkhead Cable Jack**

Clamp type for flexible cable:
- 1703-1551-0XX (Gold plated)
- 1703-7551-0XX (Nickel plated)

---

<table>
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<tr>
<td>07</td>
<td>RG59, RG62, M17/29, M17/30</td>
</tr>
</tbody>
</table>

---

Substitute the appropriate cable group number for "XX" when ordering:
75Ω Screw-on Receptacles

**Bulkhead Mounted Jacks**

**Straight Male**
**Bulkhead Jack Receptacle**
- Solder pot contact
- Rear mount
1704-1511-000 (Gold plated)
1704-7511-000 (Nickel plated)

**Straight Male**
**Bulkhead Jack Receptacle**
- Solder pot contact
- Front mount
1719-1511-000 (Gold plated)
1719-7511-000 (Nickel plated)

**P.C. Board Jacks**

**Straight Male**
**P.C. Board Receptacle**
1709-1511-000 (Gold plated)
1709-7511-000 (Nickel plated)

**Right Angle Male**
**P.C. Board Receptacle**
1710-1511-000 (Gold plated)
1710-7511-000 (Nickel plated)
75Ω Screw-on Adapters/Terminations

Straight Bulkhead Mounted Adapter

Bulkhead Mounted
Straight Male
Jack To Jack Adapter
• Connects two plugs
5722-1501-000 (Gold plated)
5722-7501-000 (Nickel plated)

Tee Adapters

Tee Adapter
(Unmatched Power Divider)
Jack To Plug To Jack
• Connects two plugs and one jack
5715-1501-000 (Gold plated)
5715-7501-000 (Nickel plated)

Resistive Termination

Female Plug
Resistive Termination
(Dummy load)
Standard resistor: 75 OHM, 1/2 watt, 5% tolerance
1736-1511-075 (Gold plated)
1736-7511-075 (Nickel plated)
75Ω Snap-on Cable Plugs
Click on connector picture to go directly to cable assembly instructions

Straight Plugs

**Straight Female Cable Plug**
Crimp type for flexible cable:
- 2702-1571-0XX (Gold plated)
- 2702-7571-0XX (Nickel plated)

**Right Angle Plugs**

**Right Angle Female Cable Plug**
Crimp type for flexible cable:
- 2705-1551-0XX (Gold plated)
- 2705-7551-0XX (Nickel plated)

**Right Angle Female Cable Plug**
Crimp type for flexible cable:
- 2715-1521-0XX (Gold plated)
- 2715-7521-0XX (Nickel plated)

Substitute the appropriate cable group number for “XX” when ordering:

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<tr>
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<th>CABLE TYPES</th>
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<td>RG180, RG195, M17/95</td>
<td>07</td>
<td>RG59, RG62, M17/29, M17/30</td>
</tr>
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</table>

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**75Ω Positive-Locking Cable Plugs**

*Click on connector picture to go directly to cable assembly instructions*

### Introduction

AEP’s positive-locking 75-ohm plugs use a spring-loaded collar that must be retracted before the connector will unmate. The bright nickel finish of the collar allows easy visual verification of their locked status after mating.

AEP positive-locking 75Ω plugs mate with any standard 75Ω snap-on jack. Standard body plating is gold with bright nickel finish on the locking collar, but they can be supplied with nickel-plated bodies as well. All have captivated contacts.

### How They Work

The spring-loaded collar positions dual detents over the outer contact fingers when released, preventing them from spreading. The plugs cannot be unmated unless the collar is fully retracted.

![Diagram of connector](image)

### Straight plug

Crimp type for flexible cable

<table>
<thead>
<tr>
<th>AEP P/N</th>
<th>2802-2571-0XX*</th>
</tr>
</thead>
</table>

### Right angle plug

Crimp type for flexible cable

<table>
<thead>
<tr>
<th>AEP P/N</th>
<th>2815-2521-0XX*</th>
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</table>

Substitute the appropriate cable group number for “XX” when ordering:

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<td>RG59, RG62, M17/29, M17/30</td>
</tr>
</tbody>
</table>
# 75Ω Snap-on Cable Jacks

Click on connector picture to go directly to cable assembly instructions

## Straight Jacks

### Straight Male Cable Jack

Clamp type for flexible cable:
- 2701-1551-0XX (Gold plated)
- 2701-7551-0XX (Nickel plated)

## Bulkhead Mounted Jacks

### Straight Male Bulkhead Cable Jack

Clamp type for flexible cable:
- 2703-1551-0XX (Gold plated)
- 2703-7551-0XX (Nickel plated)

<table>
<thead>
<tr>
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<td>RG180, RG195, M17/95</td>
<td>07</td>
<td>RG59, RG62, M17/29, M17/30</td>
</tr>
</tbody>
</table>
75Ω Snap-on Bulkhead Receptacles

**Rear Mount**

**Straight Male Bulkhead Jack Receptacle**
- Solder pot contact
- Rear mount

2704-1511-000 (Gold plated)
2704-7511-000 (Nickel plated)

**Front Mount**

**Straight Bulkhead Jack Receptacle**
- Solder pot contact
- Front mount

2719-1511-000 (Gold plated)
2719-7511-000 (Nickel plated)

**Recessed Mount**

**Straight Male Bulkhead Jack Receptacle**
- Solder pot contact
- Recessed front mount

2776-1511-000 (Gold plated)
2776-7511-000 (Nickel plated)
75Ω Snap-on P.C. Board Receptacles

Straight Jack

![Straight Male Jack P.C. Board Receptacle](image1)

- 2709-1511-001 (Gold plated)
- 2709-7511-001 (Nickel plated)

Right Angle Jack

![Right Angle Male Jack P.C. Board Receptacle](image2)

- 2710-1511-000 (Gold plated)
- 2710-7511-000 (Nickel plated)

Straight Plug

![Straight Female Plug P.C. Board Receptacle](image3)

- 2725-1511-000 (Gold plated)
- 2725-7511-000 (Nickel plated)
75Ω Snap-on Adapters/Terminations

Straight Bulkhead Mounted Adapter

**Bulkhead Mounted**
**Straight Male**
**Jack To Jack Adapter**
- Connects two plugs

5732-1501-000 (Gold plated)
5732-7501-000 (Nickel plated)

---

**Tee Adapters**

**Tee Adapter**
(Unmatched Power Divider)
**Jack To Plug To Jack**
- Connects two plugs and one jack

5725-1501-000 (Gold plated)
5725-7501-000 (Nickel plated)

---

**Tee Adapter**
(Unmatched Power Divider)
**Jack To Jack To Jack**
- Connects three plugs

5727-1501-000 (Gold plated)
5727-7501-000 (Nickel plated)

---

**Resistive Termination**

**Female Plug Resistive Termination**
(Dummy load)
Standard resistor: 75 ohm, 1/2 watt, 5% tolerance
2736-1511-075 (Gold plated)
2736-7511-075 (Nickel plated)
Cable Assembly Instructions
Clamp type connectors for flexible cable

Straight Connectors—Flexible Cable

1. Assemble contact onto cable center conductor.
   - Trim cable per trim code below; tin end of center conductor.
   - Slide backnut onto cable. Slide compression washer onto cable in the orientation shown until it stops against cable jacket.
   - Flare cable braid by rotating dielectric and slide ferrule under braid.

2. Press ferrule against compression washer.
   - Trim excess braid flush with outer diameter of compression washer and ferrule.
   - Assemble insulator over cable center conductor and dielectric.

3. Assemble contact onto cable center conductor.
   - Solder contact to center conductor by heating rear of contact (do not feed additional solder through inspection hole in contact).

4. Insert cable assembly into body assembly. Tighten to 90–100 inch-ounces torque. (Hold cable/hardware assembly stationary and rotate body when tightening.)
   - Solder center conductor into notch in rear of contact with .025–.032” diameter chisel-tip soldering iron.
   - Solder should cover center conductor, but not extend over top of notch in contact, or exceed contact diameter.

Right Angle Connectors—Flexible Cable

1. Assemble contact onto cable center conductor.
   - Trim cable per trim code below; tin end of center conductor.
   - Slide backnut onto cable. Slide compression washer onto cable in the orientation shown until it stops against cable jacket.
   - Flare cable braid by rotating dielectric and slide ferrule under braid.

2. Press ferrule against compression washer.
   - Trim excess braid flush with outer diameter of compression washer and ferrule.
   - Assemble insulator over cable center conductor and dielectric.

3. Insert cable assembly into body assembly. Tighten to 90–100 inch-ounces torque. (Hold cable/hardware assembly stationary and rotate body when tightening.)
   - Solder center conductor into notch in rear of contact with .025–.032” diameter chisel-tip soldering iron.
   - Solder should cover center conductor, but not extend over top of notch in contact, or exceed contact diameter.

4. Place insulator in body cavity, and press cap into place. Properly assembled cap will be slightly below end of body assembly.

Cable Trim Dimensions

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Connectors</td>
<td>.100</td>
<td>.125</td>
<td>.265</td>
</tr>
<tr>
<td>Right Angle Connectors</td>
<td>.075</td>
<td>.200</td>
<td>.350</td>
</tr>
</tbody>
</table>
Cable Assembly Instructions
Crimp type connectors for flexible cable

Straight Connectors—Flexible Cable

**Parts list**
- **Body assembly**
- **Backnut/crimp tail**
- **Heat-shrink tubing (optional)**
- **Insulator**
- **Contact (male or female)**
- **Crimp sleeve**

1. **Trim cable per trim code below; tin end of center conductor.**
2. **Position cable so braid touches rear of back nut.**
3. **Assemble insulator and contact onto cable dielectric and center conductor.**
   - Solder contact to center conductor by heating rear of contact (do not feed additional solder through inspection hole in contact).
4. **Insert cable assembly into body assembly. Tighten to 90–100 inch-ounces torque. (Hold cable/hardware assembly stationary and rotate body when tightening.)**
   - Solder center conductor into notch in rear of contact with .025–.032” diameter chisel-tip soldering iron.
   - Solder should cover center conductor, but not extend over top of notch in contact, or exceed contact diameter.

**Cable Trim Dimensions**

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<th>A</th>
<th>B</th>
<th>C</th>
</tr>
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<tbody>
<tr>
<td><strong>Straight Connectors</strong></td>
<td>.100</td>
<td>.475</td>
<td>.725</td>
</tr>
<tr>
<td><strong>Right Angle Connectors</strong></td>
<td>.075</td>
<td>.250</td>
<td>.500</td>
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</tbody>
</table>

Right Angle Connectors—Flexible Cable

**Parts list**
- **Body assembly**
- **Insulator**
- **Crimp sleeve**
- **Cap**
- **Heat-shrink tubing (optional)**

1. **Trim cable per trim code below; tin end of center conductor.**
2. **Position cable so braid touches rear of body assembly.**
3. **Assemble insulator and contact onto cable dielectric and center conductor.**
   - Solder contact to center conductor by heating rear of contact (do not feed additional solder through inspection hole in contact).
   - Solder center conductor into notch in rear of contact with .025–.032” diameter chisel-tip soldering iron.
   - Solder should cover center conductor, but not extend over top of notch in contact, or exceed contact diameter.
4. **Place insulator in body cavity, and press cap into place.**
   - Properly assembled cap will be slightly below end of body assembly.
   - Slide shrink tubing over crimp sleeve and shrink to fit.
**Mounting Dimensions**

<table>
<thead>
<tr>
<th>Bulkhead Receptacles</th>
<th>P.C. Board Receptacles</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Diagram of Bulkhead Receptacle Dimensions" /></td>
<td><img src="image" alt="Diagram of P.C. Board Receptacle Dimensions" /></td>
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<tr>
<td><strong>.330 dia.</strong></td>
<td><strong>.100 typ.</strong></td>
</tr>
<tr>
<td><strong>.297</strong></td>
<td><strong>.047 dia.</strong></td>
</tr>
<tr>
<td>Flat of mounting surface is aligned with body hex as shown.</td>
<td><strong>.067 dia. min. (typ.)</strong></td>
</tr>
</tbody>
</table>

- **Crimp tool with .105” and .128” hex dies**
- **Crimp tool with .156” hex die**
- **Crimp tool with .255” hex die**

---

**Assembly Tooling**

**Crimp tool**

![Crimp tool TA-0105](image)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>AEP P/N</th>
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<tbody>
<tr>
<td>Crimp tool with .105” and .128” hex dies</td>
<td>TA-0105</td>
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<tr>
<td>Crimp tool with .156” hex die</td>
<td>TA-0071</td>
</tr>
<tr>
<td>Crimp tool with .255” hex die</td>
<td>TA-0234</td>
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# Index by Part Number

Click on any line below to go directly to the appropriate page

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* Indicates cable connectors with various types on specified page.
About Applied Engineering Products

Since our foundation in 1973, we have always believed that having our customers take a look “inside AEP” is important in fostering strong vendor/customer relationships. We are proud of our physical plant and equipment, but even more so of our dedicated staff. When customers see first-hand how AEP’s people keep a constant focus on maintaining and improving customer service and satisfaction, the reason for our consistently strong on-time delivery and quality records becomes clear. We invite you to see for yourself. Call us to arrange a plant tour—or, if you can’t make a visit, ask for your copy of INSIDE AEP, our facilities and capabilities brochure.
The 75Ω connectors in this brochure are only part of our complete line of subminiature coaxial connectors and cable assemblies, including:

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- SMB
- SMC
- SSMB
- SSMC
- SLB (Slide-on version of SMB)
- SSLB (Slide-on version of SSMB)
- 75Ω Snap-on mating
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- Adapters within and between series
- Flexible cable assemblies
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