Drawing on long experience in designing RF connectors for the demanding requirements of military field radio systems, we have developed a unique system of sealing that makes connectors completely waterproof, inside and out—without expensive soldered hermetic seals or separate caps.

Our sealing system also offers enhanced electrical performance compared to hermetically-sealed connectors.

Pressure testing before shipping guarantees the integrity of the connector seals.

The connectors in this brochure are only an indication of our capabilities—virtually any bulkhead-mounted connector in our catalog can be manufactured as a waterproof type.

Contents

BNC ........................................2
SMA ........................................3
SMB ........................................4
TNC ........................................5
F Series ....................................6
Adapters Between Series ...............6
About AEP .................................7
**BNC Waterproof Bulkhead Connectors**

### Straight Cable Jack

- **Characteristics:**
  - Brass body, nickel plated.
  - Beryllium-copper captive contact, gold plated.
  - Clamp-type hardware for Times RD-316 cable.
  - Waterproof to 1 meter for 30 minutes.
  - Meets MIL-PRF-39012 requirements.

- **Options:**
  - Silver or gold plated body.
  - Crimp attachment for flexible cable, or solder-clamp for semi-rigid cable.
  - Available for most RG, M17, or semi-rigid cables up to .215 outer diameter.

**AEP Part Number: 6501-7551-219**

### Right Angle Cable Jack

- **Characteristics:**
  - Brass body, silver plated.
  - Beryllium-copper captive contact, gold plated.
  - Crimp-type hardware for RG-316 cable.
  - Meets MIL-PRF-39012 requirements.

- **Options:**
  - Nickel or gold plated body.
  - Clamp attachment for flexible cable, or solder-clamp for semi-rigid cable.
  - Available for most RG, M17, or semi-rigid cables up to .215 outer diameter.

**AEP Part Number: 6561-6521-003**
SMA Waterproof Bulkhead Connectors

Straight Cable Jack—Standard Mating

Characteristics:
- Stainless steel body, nickel plated.
- Beryllium-copper captive contact, gold plated.
- Clamp-type hardware for RG-178 cable.
- Meets MIL-PRF-39012 requirements.

Options:
- Gold plated or passivated body.
- Crimp attachment for flexible cable, or solder-clamp for semi-rigid cable.
- Available for most RG, M17, or semi-rigid cables up to .215 outer diameter.

AEP Part Number: 9153-7553-002

Straight Cable Jack—Polarized Mating

Characteristics:
- Stainless steel body, gold plated.
- Beryllium-copper captive contact, gold plated.
- Clamp-type hardware for RG-178 cable.

Options:
- Nickel plated or passivated body.
- Crimp attachment for flexible cable, or solder-clamp for semi-rigid cable.
- Available for most RG, M17, or semi-rigid cables up to .215 outer diameter.

AEP Part Number: 9731-1553-002
SMB Waterproof Bulkhead Connectors

Straight Cable Jack—Hex Mounting Nut

Characteristics:
- Brass body, flat black chrome plated.
- Beryllium-copper captive contact, gold plated.
- Clamp-type hardware for RG-316 cable.
- Hood over mating end to prevent mismating.
- Waterproof to 3 PSI pressure.

Options:
- Gold or nickel plated body.
- Crimp attachment for flexible cable, or solder-clamp for semi-rigid cable.
- Available for most RG, M17, or semi-rigid cables up to .125 outer diameter.

AEP Part Number: 2027-3551-403

Straight Cable Jack—Spanner Mounting Nut

Characteristics:
- Brass body, flat black chrome plated.
- Beryllium-copper captive contact, gold plated.
- Clamp-type hardware for RG-316 cable.
- Hood over mating end to prevent mismating.
- Waterproof to 3 PSI pressure.

Options:
- Gold or nickel plated body.
- Crimp attachment for flexible cable, or solder-clamp for semi-rigid cable.
- Available for most RG, M17, or semi-rigid cables up to .125 outer diameter.

AEP Part Number: 2027-3551-303
**TNC Waterproof Bulkhead Connectors**

### Straight Cable Jack

**AEP Part Number:** 6002-7551-202

**Characteristics:**
- Brass body, nickel plated.
- Beryllium-copper captive contact, gold plated.
- Clamp-type hardware for RG-178 cable.
- Meets MIL-PRF-39012 requirements.

**Options:**
- Silver or gold plated body.
- Crimp attachment for flexible cable, or solder-clamp for semi-rigid cable.
- Available for most RG, M17, or semi-rigid cables up to .215 outer diameter.

### Straight Cable Jack

**AEP Part Number:** 6002-7551-219

**Characteristics:**
- Brass body, nickel plated.
- Beryllium-copper captive contact, gold plated.
- Clamp-type hardware for Times RD-316 cable.
- Waterproof to 1 meter for 30 minutes.
- Meets MIL-PRF-39012 requirements.

**Options:**
- Silver or gold plated body.
- Crimp attachment for flexible cable, or solder-clamp for semi-rigid cable.
- Available for most RG, M17, or semi-rigid cables up to .215 outer diameter.
**Waterproof Bulkhead Connectors and Adapters**

### F Series Receptacle

**AEP Part Number:** 8572-7511-000

**Characteristics:**
- Brass body, nickel plated.
- Beryllium-copper captive contact, gold plated.
- Screw-in mounting.

**Options:**
- Gold or nickel plated body.
- Other contact termination types (tab, slotted, solder pot, threaded).

### SMA to SSMC Adapter

**AEP Part Number:** 5944-1503-000

**Characteristics:**
- Stainless steel body, gold plated.
- Beryllium-copper captive contact, gold plated.
- Mates with SMA plug and SSMC plug.
- Meets MIL-PRF-39012 requirements.

**Options:**
- Nickel plated or passivated body.
- Other adapters within or between series in our catalog can be provided as waterproof types.
About AEP
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.

Other AEP Products
The waterproof connectors in this brochure are only part of our complete line of coaxial connectors and cable assemblies, including:

- BNC, N, and TNC connectors for miniature cables
- MCX and MMCX
- SMA
- SMB
- SMC
- SSMB
- SSMC
- SLB (Slide-on version of SMB)
- SLB/SA Self-aligning P.C. board receptacles
- SSLB (Slide-on version of SSMB)
- 75 ohm Miniature SMB
- 75 ohm Snap-on mating
- 75 ohm Screw-on mating
- Adapters within and between series
- Flexible cable assemblies
- Semi-rigid cable assemblies

Visit www.aepconnectors.com to see them all.