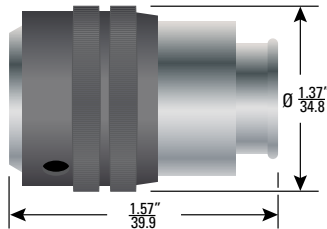


The 1804 and 1807 Series of ruggedized 4 and 7-pin, connectors have been used in applications ranging from military vehicle electric reactive armor to airborne Synthetic Aperture Radar. The 1807 has even been used on the Ion Propulsion systems that have propelled some of NASA and JAXA's most successful spacecraft into Deep Space.

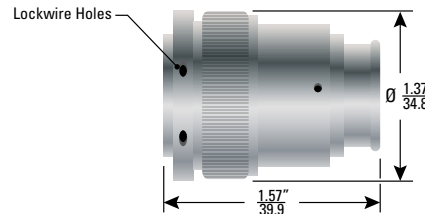
Both the 1804 and 1807 use the same connector housings which come in shielded and non-shielded configurations with either threaded or bayonet coupling nuts. Plug kits are available for customer-fabricated cable assemblies using Teledyne Reynolds' specified wire.

PLUG KITS

Bayonet, Shielded (shown)



Threaded, Shielded (shown)



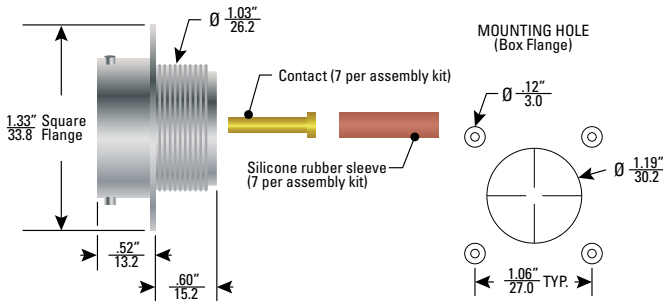
SERIES	BAYONET, SHIELDED	BAYONET, NON-SHIELDED	THREADED, SHIELDED	THREADED, NON-SHIELDED
1804	167-9704	167-9601	167-9702	167-9703
1807	167-9708	167-9709	167-9691	167-9693

- Shielded Plug Kits use wire [167-9346](#)
- Non-shielded Plug Kits use wire [167-9543](#)
- While plugs kits are available for customer-fabricated cable assemblies, Teledyne Reynolds highly recommends purchasing cable assemblies because of difficulties customers may experience in assembly and testing.
- Assembly instructions can be found at www.teledynereynolds.com or by contacting Teledyne Reynolds' Engineering.

RECEPTACLE

Bayonet, Front, Box Flange Mount with Contact Kit

1807: 178-8741



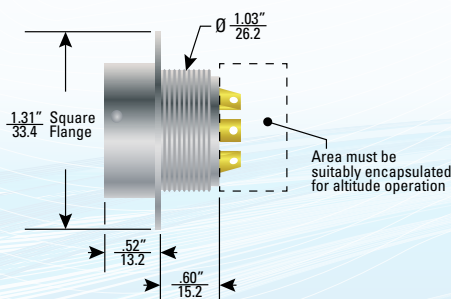
- **Mounting:** See optional Box Flange mounting hole
- **Note:** Contacts to be soldered to cable, inserted & bonded into insulator. Assembly instructions can be found at www.teledynereynolds.com or by contacting Teledyne Reynolds' Engineering.

Bayonet, Front, Box Flange Mount with Molded-in Contacts

1804: 167-9707

1807: 167-9712

- **Mounting:** See optional Box Flange mounting hole

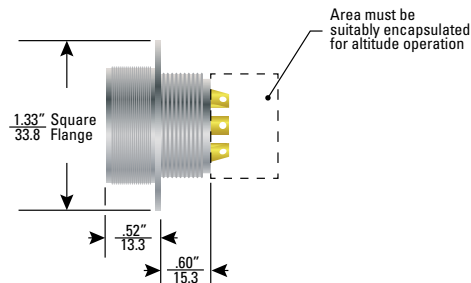


Threaded, Front, Box Flange Mount

1804: 167-9706

1807: 167-9711

- **Mounting:** See optional Box Flange mounting hole

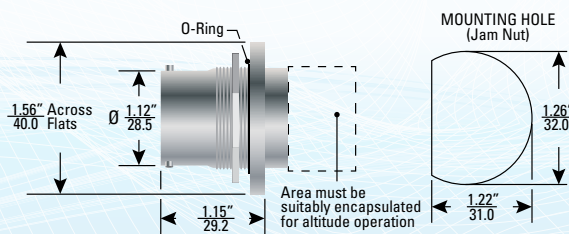


Sealed, Bayonet, Rear, Jam Nut Mount

1804: 167-8819

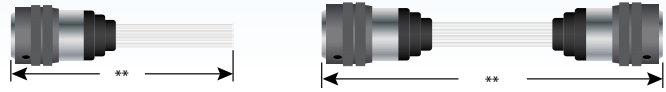
1807: 167-8666

- **Panel Mounting Torque:** 84 ± 2 in-lbs
- **Mounting:** See optional Jam Nut mounting hole
- **Pressure:** Sealed for 1 ATM differential pressure
- **Max. Leak Rate:** 1x10⁻⁶ cc/s He @1 ATM differential pressure

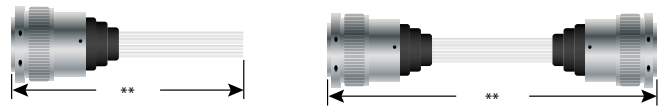


PLUG CABLE ASSEMBLIES

1804	SINGLE-ENDED	DOUBLE-ENDED	WIRE
BAYONET, SHIELDED	167-9717	167-9713	167-9346
BAYONET, NON-SHIELDED	167-9658	167-9714	167-9543
THREADED, SHIELDED	167-9724	167-9720	167-9346
THREADED, NON-SHIELDED	167-9725	167-9721	167-9543



1807	SINGLE-ENDED	DOUBLE-ENDED	WIRE
BAYONET, SHIELDED	167-9718	167-9715	167-9346
BAYONET, NON-SHIELDED	167-9719	167-9716	167-9543
THREADED, SHIELDED	167-9726	167-9722	167-9346
THREADED, NON-SHIELDED	167-9727	167-9723	167-9543



RECEPTACLE CABLE ASSEMBLIES

Bayonet, Front, Box Flange Mount

1804: 167-9661 Uses wire 167-9543

1807: 167-8730 Uses wire 167-9543

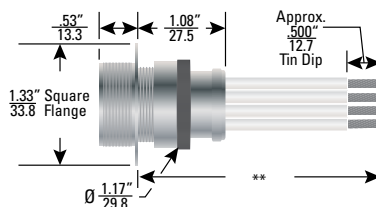
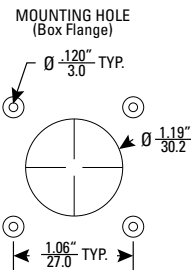
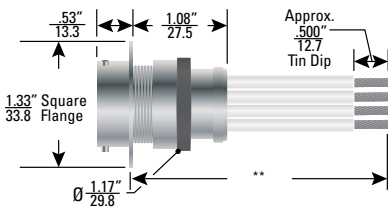
- Plastic Insulator
- **Mounting:** See optional Box Flange mounting hole

Threaded, Front, Box Flange Mount

1804: 167-8732 Uses wire 167-9543

1807: 167-9730 Uses wire 167-9543

- Plastic Insulator
- **Mounting:** See optional Box Flange mounting hole

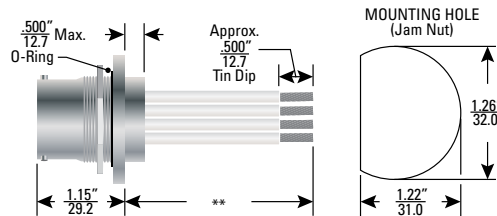


Sealed, Rear, Jam Nut Mount

1804: 167-8731 Uses wire 167-9543

1807: 178-7006 Uses wire 167-9543

- Plastic Insulator
- **Panel Mounting Torque:** 84 ± 2 in-lbs
- **Mounting:** See optional Jam Nut mounting hole
- **Pressure:** Sealed for 1 ATM differential pressure
- **Max. Leak Rate:** 1x10⁻⁶ cc/s He @1 ATM differential pressure



SERIES SPECIFICATIONS

(• = Same value as above)

Series	Voltage Rating (kVDC)	Altitude Rating (ft)	Operating Temp. (°C)	Current Rating (Amp)	Receptacle Insulator Material	Plug Insulator Material	Coupling Style	Coupling Nut Material/Finish	Plug Contact Material/Finish (Pin)	Recept Contact Material/Finish (Socket)	Wire Type	Wire Insulation	Braid Termination	Test Voltage @ 70,000 ft (kVDC)	Test Voltage @ Sea Level (kVDC)
1804	15	70,000	-55 to 125	7.5†	Plastic	Silicone	Bayonet or Threaded	Al/Ni	Brass/Au	BeCu/Au with CRES hood	Shielded or Non-shielded	FEP	Clamp	22	N/A
1807	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

WIRE SPECIFICATIONS

Part Number	Operating Voltage (kVDC)	Conductor			Insulation		Shielding			Jacket		Impedance Ω	Attenuation dB/100 ft @ 400 MHz	Capacitance pF/ft (Nom.) @ 1 kHz
		AWG	Strands	Plating	Material	ø in./mm	AWG	Plating	ø in./mm	Material	ø in./mm			
167-9543	21	20	19/32	TPC	FEP	0.080 / 2.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
167-9346	22	22	19/34	SPC	•	•	36	SPC	0.100 / 2.54	FEP	0.125 / 3.18	43	10.6	31

†Current rating is per pin for multi-pin connectors. Based on your specific application, additional derating may be required.

**Cable Assembly Ordering Information: All cable assembly cable lengths are to be specified in inches only. For example, to order part number 178-6027 with a cable length of 10 feet 8 inches the cable assembly part number would be specified as 178-6027-128N.

• **Note:** Product numbers and specs subject to change without notice. • Products listed represent only a small selection of Teledyne Reynolds' products please visit www.teledynereynolds.com for the most up to date product information. • Contact Teledyne Reynolds' Engineering to discuss custom designs. **WARNING: Connectors should NEVER be handled mated or unmated when voltage is applied.**