



Series

600
600 S “Space Use”
610

**Subminiature
Coaxial
Connectors
5 KVDC Rated
Altitude • Space**

GENERAL SPECIFICATIONS

Series 600

A complete line of subminiature coaxial high voltage connectors. The series 600 is rated at 5 KVDC for altitude operation over the temperature range of -55°C thru + 125°C. Various adapters are available on special order.

Series 600 S “Space Use”

Series 600 S “Space Rated” connectors are designed to operate over a long period of time in the hard vacuum of space. The operating voltage is 5 KVDC at a minimum vacuum of 10 millitorr to deep space. Series 600 S connectors and cable assemblies are not interchangeable with series 600 connectors or cable assemblies and should not be used in any application other than one with a minimum vacuum of 10 millitorr or in deep space.

Series 610

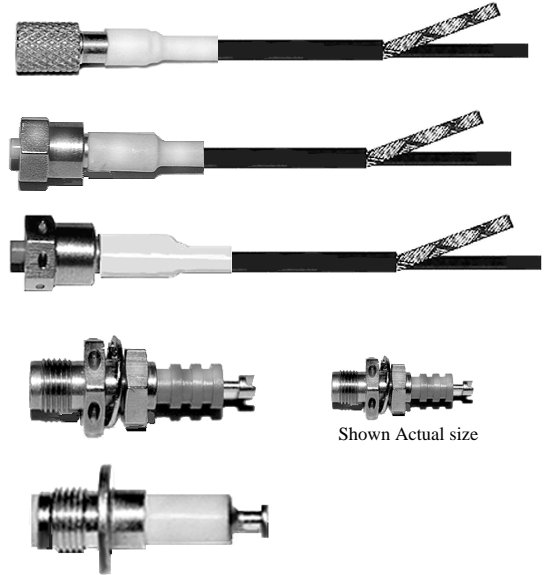
The series 610 has a larger coupling nut and threads than the series 600 and is recommended for airborne applications or any application where numerous mating operations are required. Series 600 and 610 connectors are not interchangeable and can therefore be used for polarization to prevent cross mating in multiple circuit applications.

Series 600 & 610 cable assemblies effect an altitude seal through the use of internal seals. This design feature allows the mated assemblies to operate at altitudes up to 70,000 ft. with no encapsulation within a temperature range of -55°C to + 125°C. While plugs (kits) are available for customer-fabricated cable assemblies, Reynolds highly recommends purchasing cable assemblies because of difficulties customers may experience in assembly and testing. Panel connectors require encapsulation at the junction of the terminal and the insulator.

Interface cleaning

High voltage connectors must always be cleaned prior to mating. The proper cleaning method is to wipe or spray the interface area with isopropyl alcohol and immediately blow an inert gas such as dry nitrogen over the interface area until dry. No other cleaning method should be attempted.

WARNING: These connectors should **NEVER** be handled, mated or unmated when voltage is applied.



GENERAL SPECIFICATION

- Sea level voltage rating
- 70,000 ft. altitude rating @ -55°C to +125°C
- Receptacle insulator material
- Lock wire holes for hex plug & receptacle
- Plug body material/finish
- Hex threaded coupling material/finish
- Knurled threaded coupling material/finish
- Male contact diameter (receptacle) inches/mm
- Male & female contact material/finish
- Cable (plug)
- 100% test voltage @ 70,000 ft. simulated altitude and ambient temperature:
 - Receptacles
 - Cable Assemblies

Series 600

- 10 KVDC**
- 5 KVDC**
- Plastic**
- Yes**
- Brass/Gold**
- Stainless steel/Passivated**
- Brass/gold**
- 0.031/.79mm**
- Be Cu/Gold**
- Coax or non-shielded**

Series 610

- 10 KVDC**
- 5 KVDC**
- Plastic**
- No**
- Brass/Gold**
- Stainless steel/Passivated**
- N/A**
- 0.031/.79mm**
- Be Cu/Gold**
- Coax or non-shielded**

- 15KVDC**
- 15 KVDC**

- 15 KVDC**
- 15 KVDC**

Cable Assembly
Length vs Manufacturing
Tolerance Chart

Length: feet/M	Tolerance: inches/mm
7.5/2.28 or less	0.25/6.3
7.5/2.2 to 12.5/3.8	1.0/25.4
12.5/3.8 to 22.5/6.8	1.50/38.1
22.5/6.8 to 35/10.6	2.0/50.8
35/10.6 to 50/15.2	3.0/76.2
50/15.2 to 70/21.3	4.0/101.6
70/21.3 to 100/30.4	5.0/127