

**Series 610**

**5 KVDC**  
Altitude Rated  
**Operating Temperature:**  
-55°C to +125°C

**600 S**  
"Space Use"

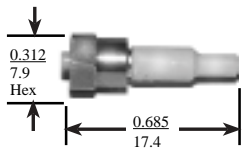
**5 KVDC**  
10 millitorr  
to Deep Space

**Series 610**

**5 KVDC Altitude Rated Connectors & Cable Assemblies**

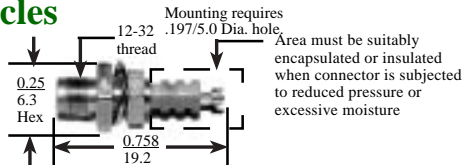
**Plugs (Kit)**

While Plugs (kits) are available for customer fabricated cable assemblies, Reynolds recommends purchasing cable assemblies because of difficulties customers may experience in assembly and testing.

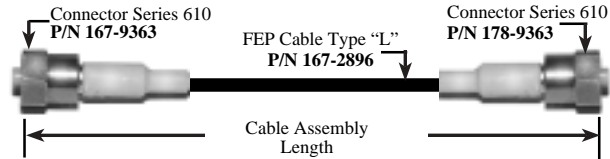


**P/N 167-9363** Series 610 Hex CRES coupling nut  
Operating voltage: 5 KVDC up to 70,000 ft.  
Operating temperature: -55°C to +125°C  
Mating connector: Series 610 receptacles. Note: Will not mate series 600 connectors  
Cable: Type "L" FEP shielded cable **P/N 167-2896**  
For cable preparation & assembly instructions, see p. 45  
Bulk cable: See p. 40 for ordering and specifications

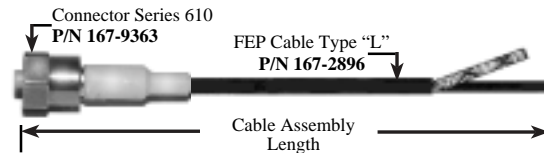
**Receptacles**



**P/N 167-9364** Front mount, non-sealed connector. Brass body. No Lock wire holes  
Operating voltage: 5 KVDC up to 70,000 ft.  
Operating temperature: -55°C to +125°C  
Mating connectors: Mates all series 610 cable assemblies.  
Note: Will not mate series 600 connectors  
Ordering Connectors: Specify the Part Number



**P/N 167-8920** Series 610 Double-Ended Coaxial Cable Assembly  
Operating voltage: 5 KVDC up to 70,000 ft.  
Operating temperature: -55°C to +125°C  
Test voltage: 100% @ 7.5 KVDC 70,000 ft. simulated. Ambient temp.  
Mates all series 610 receptacles  
Ordering: See cable assembly ordering information, below  
Bulk cable: See p. 40 for ordering and specifications



**P/N 167-9487** Series 610 Single-Ended Coaxial Cable Assembly  
Operating voltage: 5 KVDC up to 70,000 ft.  
Operating temperature: -55°C to +125°C  
Test voltage: 100% @ 7.5 KVDC 70,000 ft. simulated. Ambient temp.  
Mates all series 610 panel connectors  
Ordering: See cable assembly ordering information, below  
Bulk cable: See p. 40 for ordering and specifications

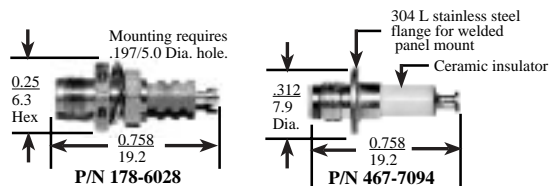
**Series 600 S**

**5 KVDC "Space Use"**

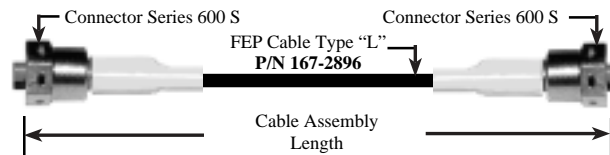
10 millitorr (min.)  
to Deep Space

A series of two receptacles and a cable assembly designed to operate at a minimum vacuum of 10 millitorr to deep space. The connectors have no seals and both plug and receptacle are vented to release any air trapped during pressure reduction associated with launch to deep space. Each receptacle is shipped with an interface seal which can be installed for necessary pre-launch voltage testing. The seal *must* be removed prior to launch.

Customers are strongly urged to discuss any potential usage of these connectors with a Reynolds applications engineer before purchasing or using the series 600 S in any space application.



**P/N 178-6028** Front panel mount receptacle.  
Gold plated brass vented body  
**P/N 467-7094** Front mount panel receptacle. Ceramic-to-metal hermetically sealed. Stainless steel vented body with weldable flange.  
Leakage Rate: 1 X 10<sup>-8</sup> cc/sec. He. (P/N 467-7094 only)  
Test seal installation/removal tool: Order P/N 178-8608.  
Seal installation/removal procedure: Contact Reynolds Contracts Department and request document R-631  
Operating voltage: 5 KVDC @ minimum 10 millitorr.  
Mating connectors: Cable assembly **P/N 178-6027** only



**P/N 178-6027** Series 600 S Coaxial Cable Assembly  
Operating voltage: 5 KVDC  
Mates series 600 S receptacles, exclusively  
Bulk Cable: See p. 40 for ordering and specifications

**Cable Assembly Ordering Information**

Order by Part Number  
Use "F" for feet, "N" for inches.  
Example: Cable Assembly 178-6027 10 feet 8 inches in length, is ordered as **P/N 178-6027-10F-8N**