



**Introduction**

Maxxum is a series of single pin, shielded connectors and cable assemblies rated at 25 KVDC. These connectors are robust in their construction, using stainless steel for the threaded coupling nut and body. This series is ideally suited for use as a high power TWT collector interconnect.

Maxxum series connectors are used in applications where a tightly shielded assembly is required. The cable assemblies use FEP cable with a double braid crimped directly to the stainless steel body of the connector.

Both plastic and high alumina ceramic receptacles are available depending on the users hermeticity requirements. EMI and safety shielding from the cable assembly to the receptacle mounting surface is a feature of both the plastic and ceramic receptacles.

Maxxum connectors and cable assemblies will operate at their rated voltage at 70,000 feet altitude and over a temperature excursion of -55 to +125° C.

**General Specifications**



**Plug and Cable Assemblies**

**Insulator:** Thermoplastic

**Dielectric Seals:** Silicone rubber

**Coupling Nut:** Stainless steel

**Body:** Stainless steel

**Contact:** Beryllium copper, gold plated, size 16 female with stainless steel hood

**Cable Type:** 0.150 inch diameter FEP with double shield. P/N 167-8556

**Rated Voltage:** 25 KVDC at 70,000 feet

**Test Voltage:** 130% of rated voltage at 70,000 feet simulated altitude

**Current Rating:** 12 amperes RMS

**Receptacles**

**Insulator:** Diallyl Phthalate or ceramic

**Dielectric Seals:** Silicone rubber

**Body:** Stainless steel

**Contact:** Plastic version: Brass gold plated, size 16 (ø.062) male. Ceramic version: Kovar, nickel plated

**Conductive Gasket:** Silver loaded silicone rubber

**Rated Voltage:** 25 KVDC at 70,000 feet

**Test Voltage:** 130% of rated voltage at 70,000 feet simulated altitude

**Current Rating:** 12 Amperes RMS

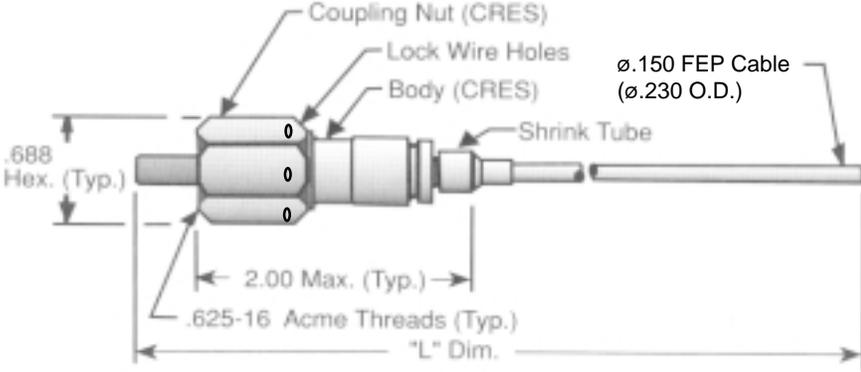


**ADVANCED GROUP**

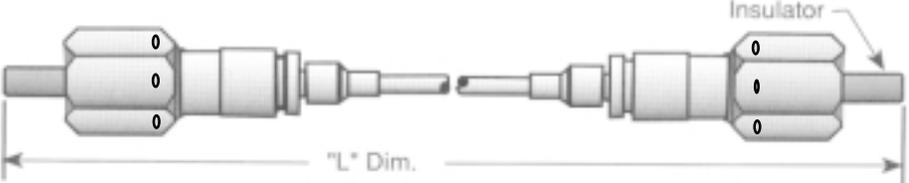
**Maxxum Series  
25 KVDC**

- 1. Single Pin Shielded Cable Assemblies
- 2. Ceramic & Plastic Receptacles

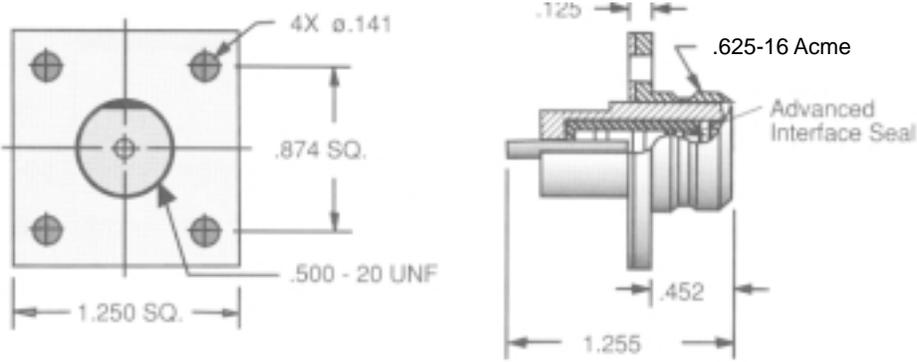
<b>P/N 178-9433</b>	<b>Mating</b>
Single Ended, Shielded Cable Assembly	See Note 1



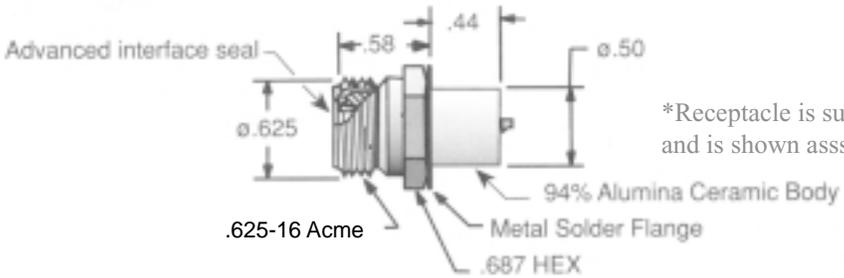
<b>P/N 178-9434</b>	<b>Mating</b>
Double Ended, Shielded Cable Assembly	See Note 1



<b>P/N 167-7708</b>	<b>Mating</b>
Flange Mounted Plastic Receptacle	See Note 2



<b>P/N 178-9740</b>	<b>Mating</b>
Ceramic Panel Mount Receptacle (kit)*	See Note 2



\*Receptacle is supplied as a Kit and is shown assembled for clarity

NOTES: 1. Mates all Maxxum series threaded receptacles. See this page  
2. Mates all Maxxum series plug cable assemblies. See this page