

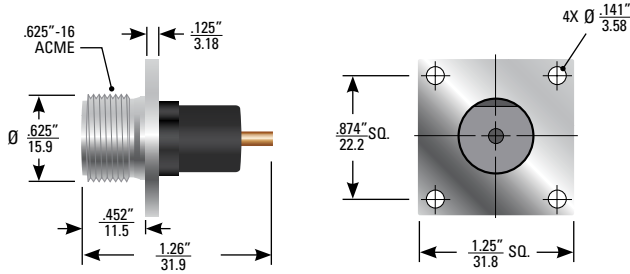
Maxxum Series connectors are robust in their construction, using stainless steel for the threaded coupling nut and body while also incorporating Teledyne Reynolds' patented Advanced Interface Sealing System™ for unmatched electrical performance at reduced atmospheric pressure. In addition, the cable assemblies use FEP insulated cable with a double braid crimped directly to the stainless steel body of the connector.

This series is ideally suited for use as a high power, TWT collector interconnect or in E-beam inspection equipment where a low partial discharge design and hermetic feedthrough are required.

RECEPTACLES

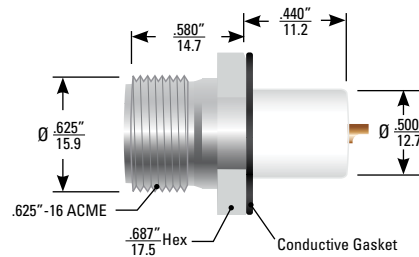
(Dimensions shown as in/mm)

Plastic, Flange Mounted, Non-Sealed
167-7708



- **Mating Torque:** 14 to 16 in-lbs
- **Mounting:** Requires clearance for .500" -20 UNF thread

Ceramic-to-Metal Brazed, Hermetic
178-9740

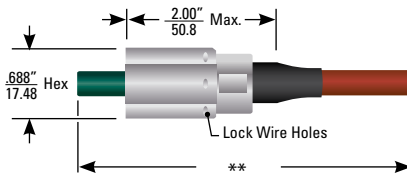


- Sealed for 1 ATM differential pressure
- **Max. Leak Rate:** 1x10⁻⁸ cc/s He @1 ATM differential pressure
- **Mating Torque:** 14 to 16 in-lbs
- **Metal Adapter to Ceramic Assembly Torque:** 20 to 22 in-lbs
- **Mounting:** Solder Flange

CABLE ASSEMBLIES

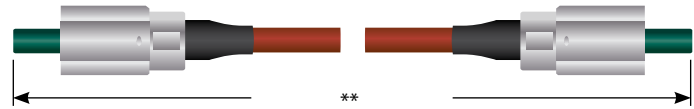
Single-Ended, Shielded
178-9433

- Uses Wire 167-8556



Double-Ended, Shielded
178-9434

- Uses Wire 167-8556



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 (Socket)	Recept. Contact Material/Finish (Pin)	Wire Type	Wire Insulation	Braid Termination	Test Voltage @ 70,000 ft	Test Voltage @ Sea Level
MAXXUM*	25	70,000	-55 to 125	9.9	Plastic or Ceramic	Plastic	Threaded	CRES	BeCu/Au with CRES Hood	Brass/Au or Kovar™	Shielded	FEP	Solder	33	N/A

WIRE SPECIFICATIONS

Part Number	Operating Voltage (kVDC)	Conductor			Insulation		Shielding			Jacket		Impedance Ω	Attenuation dB/100 ft @ 400mhz	Capacitance pF/FT (Nom.) @1k HZ
		AWG	Strands	Plating	Material	σ in./mm	AWG	Plating	σ in./mm	Material	σ in./mm			
167-8556	40	20	19/32	SPC	FEP	.150/3.81	36	SPC	0.120 / 3.05	FEP	0.145 / 3.68	50	N/A	29.3

* The Maxxum series was previously known as the 725 series.

**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. Kovar is a registered trademark of the Carpenter Technology Corporation.