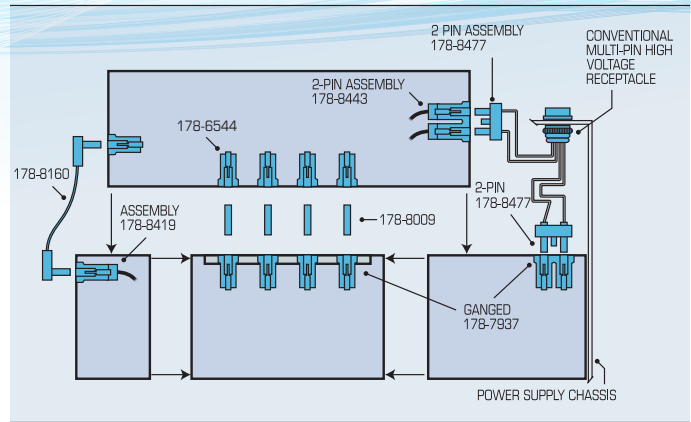


PeeWee SERIES

PeeWee is one of a family of subminiature, high-voltage connectors for use in high voltage applications where dense electronic packaging is required. The PeeWee connector uses a unique method of sealing high voltage at reduced atmospheric pressure, which allows the connector to be rated at 12 kVDC at 70,000 ft with a temperature range of -55° to 125°C.

MODULARIZATION

By using PeeWee connectors, it is possible to package or re-package a high voltage power supply into multiple modules which can be easily and reliably mated and un-mated with one another. The packaging technique permits the pre-testing of individual modules as they are being manufactured and the ability to replace modules or perform routine maintenance in the field when necessary.



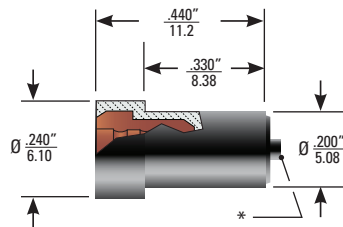
Typical cross-section of modularized power supply utilizing PeeWee connectors and cable assemblies.

RECEPTACLES

(Dimensions shown as in/mm)

Non-Sealed, Front Mount†
178-6544 (Replaces 178-7937)

- Recommend bonding into epoxy G-10 plate .080" or .120" thick
- **Mounting:** .243" (6.17 mm) diameter hole



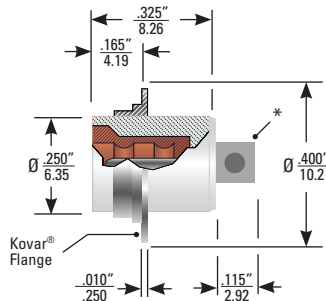
Ceramic-to-Metal, Brazed, Hermetic†
467-7022

- **Mounting:** Weld Flange

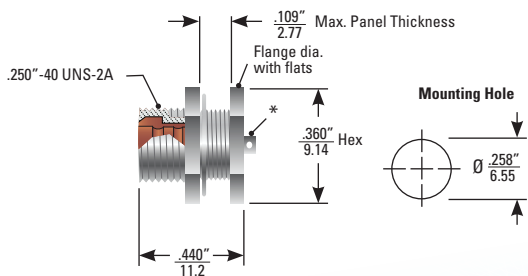
467-7024

- **Mounting:** Solder Flange

- Sealed for 1 ATM differential pressure
- **Max. Leak Rate:** 1x10⁻⁶ cc/s He @1 ATM differential pressure



Threaded, Non-Sealed, Rear Mount††
178-8621



- **Panel Mounting Torque:** 5 to 6 in-lbs
- **Mounting:** .258" (6.55 mm) diameter hole

Double-Ended, Plug Adapter†
178-8009



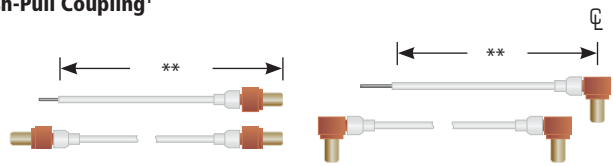
*Contact pot will accommodate 24 AWG wire. Do not exceed 400°F when soldering. Use SN 60 solder.

**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.

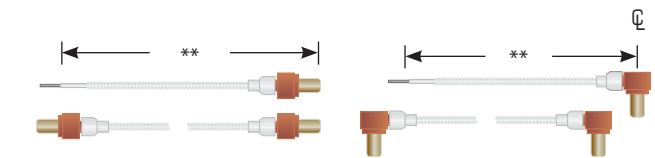
• **Note:** Product numbers and specs subject to change without notice. • Products listed represent only a small selection of Teledyne Reynolds' products please visit www.teledynereynolds.com for the most up to date product information. • Contact Teledyne Reynolds' Engineering to discuss custom designs.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

PLUG CABLE ASSEMBLIES

Push-Pull Coupling†

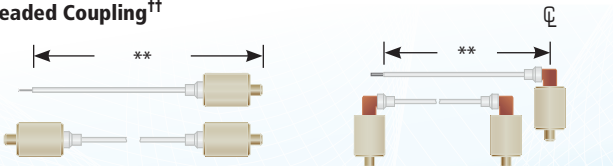


	SINGLE-ENDED	DOUBLE-ENDED	WIRE TYPE	WIRE P/N
STRAIGHT	178-8166	178-8169	Etched FEP	178-8111
STRAIGHT	178-8425	178-8426	Silicone Coated FEP	178-8066
RT. ANGLE	178-8172	178-8160	Etched FEP	178-8111
RT. ANGLE	178-8423	178-8424	Silicone Coated FEP	178-8066



	SINGLE ENDED, NOMEM® JACKET	DOUBLE-ENDED, NOMEM® JACKET	WIRE TYPE	WIRE P/N
STRAIGHT	178-8174	178-8177	Etched FEP, NOMEM® Jacket	178-8118
STRAIGHT	178-8427	178-8428	Silicone Coated FEP, NOMEM® Jacket	178-5789
RT. ANGLE	178-8167	178-8163	Etched FEP, NOMEM® Jacket	178-8118
RT. ANGLE	178-8429	178-8430	Silicone Coated FEP, NOMEM® Jacket	178-5789

Threaded Coupling††

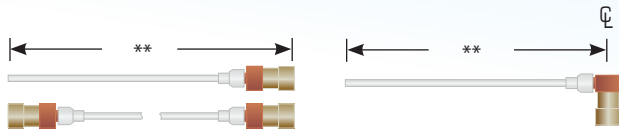


	SINGLE-ENDED	DOUBLE-ENDED	WIRE TYPE	WIRE P/N
STRAIGHT	178-8398	178-8402	Etched FEP	178-8118
STRAIGHT	178-8399	178-8403	Silicone Coated FEP	178-8066
RT. ANGLE	178-9345	178-9349	Etched FEP, NOMEM® Jacket	178-8118
RT. ANGLE	178-9346	178-9350	Silicone Coated FEP, NOMEM® Jacket	178-5789

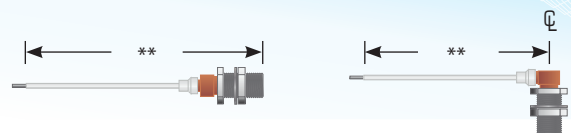
† Mates with all non-threaded PeeWee series plug assemblies.
†† Mates with threaded plug assemblies.

RECEPTACLE CABLE ASSEMBLIES

PUSH-PULL COUPLING†



THREADED COUPLING††



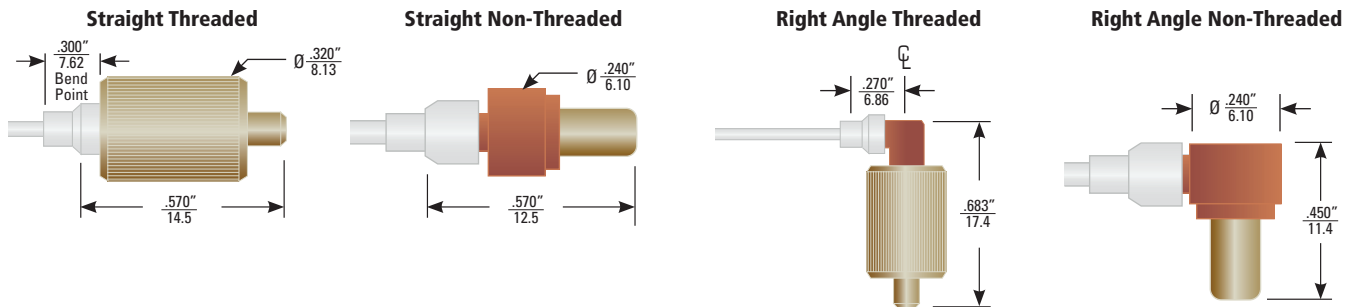
(• = Same value as above)

	SINGLE-ENDED	DOUBLE-ENDED	WIRE TYPE	WIRE P/N
STRAIGHT	178-8110	178-8180	Etched FEP	178-8111
STRAIGHT	178-8419	178-8420	Silicone Coated FEP	178-8066
RT. ANGLE	178-8251	N/A	Etched FEP	178-8111
RT. ANGLE	178-8422	•	Silicone Coated FEP	178-8066

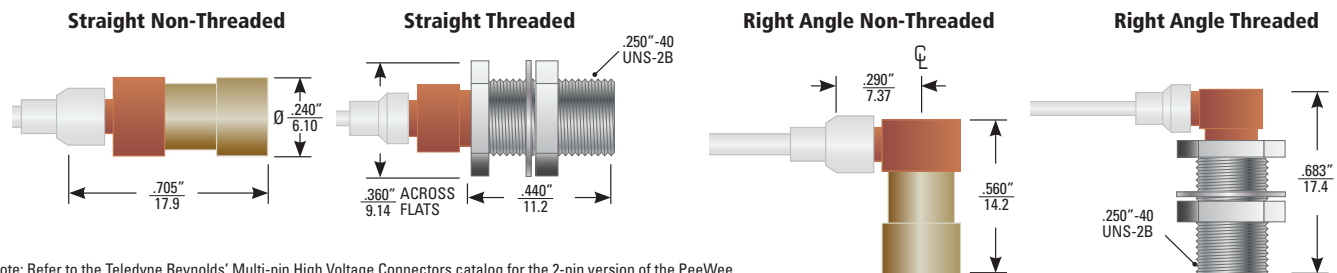
	SINGLE-ENDED	WIRE TYPE	WIRE P/N
STRAIGHT	178-9499	Etched FEP	178-8111
STRAIGHT	178-9500	Silicone Coated FEP	178-8066
STRAIGHT	178-9502	Silicone Coated FEP, NOMEX® Jacket	178-5789
RT. ANGLE	178-9510	•	•

PLUG DIMENSIONS

(Dimensions shown as in/mm)



RECEPTACLE DIMENSIONS



Note: Refer to the Teledyne Reynolds' Multi-pin High Voltage Connectors catalog for the 2-pin version of the PeeWee Series. Refer to the Space Qualified (SQ) Connectors catalog for the SQ PeeWee designs.

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
PeeWee	12	70,000	-55 to 125	1.6	Plastic or Ceramic	Plastic	Push-Pull or Threaded	Plastic	BeCu/Au with CRES hood	Brass/Au or Kovar®	Non-Shielded	FEP	N/A	18	N/A

WIRE SPECIFICATIONS

Part #	Operating Voltage (kVDC)	Conductor			Insulation		Shielding			Jacket		Impedance Ω	Attenuation dB/100 ft @ 400mhz	Capacitance pF/FT (Nom.) @1k HZ
		AWG	Strands	Plating	Material	∅ in./mm	AWG	Plating	∅ in./mm	Material	∅ in./mm			
178-5789	18	24	19/36	SPC	Silicone Coated FEP	0.060 / 1.52	N/A	N/A	N/A	NOMEX®	TBD	N/A	N/A	N/A
178-8111	•	•	•	•	Etched FEP	0.050 / 1.27	•	•	•	N/A	N/A	•	•	•
178-8066	•	•	•	•	Silicone Coated FEP	0.060 / 1.52	•	•	•	•	•	•	•	•
178-8118	•	•	•	•	Etched FEP	0.050 / 1.27	•	•	•	NOMEX®	TBD	•	•	•

† Mates with all non-threaded PeeWee series plug assemblies.

†† Mates with threaded plug assemblies.

Nomex is a registered trademark of DuPont. Kovar is a registered trademark of the Carpenter Technology Corporation.