

**LOW CORONA DISCHARGE CONNECTORS**

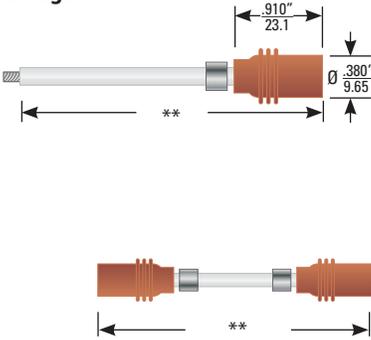
This series of push-on/pull-off Silicone In-line Disconnect (SID) connectors provides a reliable 15 kVDC high voltage connection for use in military and aerospace applications.

A unique interface sealing system allows these connectors to perform well under vibration, shock, altitude and temperature extremes. Mated SID assemblies also have excellent corona characteristics.

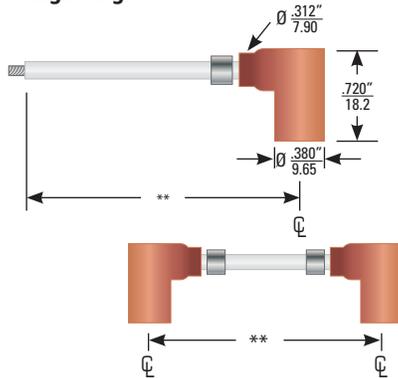
**PLUG CABLE ASSEMBLIES**

(Dimensions shown as in/mm)

**Straight**

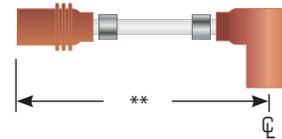


**Right Angle**



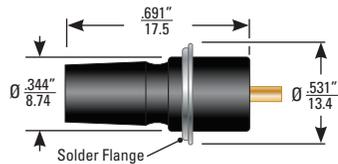
	SINGLE-ENDED	DOUBLE-ENDED	WIRE DIA. (in./mm)	WIRE P/N
STRAIGHT	178-6076	178-6078	.165 / 4.19	178-6179
RT. ANGLE	178-6080	178-6082	.165 / 4.19	178-6179
HYBRID	N/A	178-6084	.165 / 4.19	178-6179

**Hybrid**



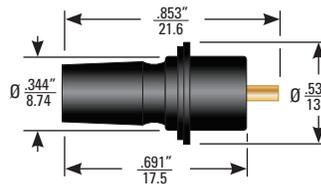
**RECEPTACLES**

**Sealed, Front Mount, Solder Flanged**  
**26RC1031**



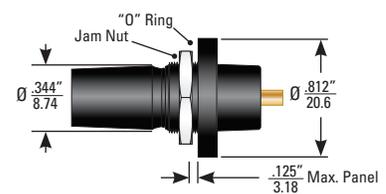
- **Mounting:** Solder flange
- Sealed for 1 ATM differential pressure
- **Max Leak Rate:** 1 x 10<sup>-6</sup> cc/s He @ 1ATM differential pressure

**Non-Sealed, Front Mount, Plastic Flanged**  
**29RC1031**



- **Mounting:** Designed for encapsulation or bonding

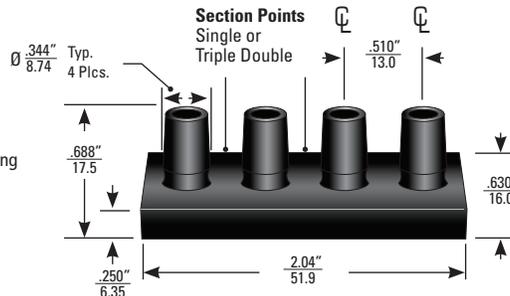
**Sealed, Rear Mount, Flanged Jam Nut**  
**60RC1031**



- **Mounting:** Jam nut flange
- Sealed for 1 ATM differential pressure
- **Max Leak Rate:** 1 x 10<sup>-6</sup> cc/s He @ 1ATM differential pressure

**Non-Sealed, 4-Pin, Receptacle Block**  
**34RC1031**

- **Mounting:** Designed for encapsulation or bonding
- **Note:** Block can be precision cut by customer to convert to single, double or triple pin connector



**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
SID	15	70,000	-55 to 95	5	Plastic	Silicone	Push-Pull	N/A	BeCu/Au with CRES Hood	Brass/Au	Non-Shielded	Silicone	N/A	20	N/A

**WIRE SPECIFICATIONS**

Part #	Operating Voltage (kVDC)	Conductor			Insulation		Shielding			Jacket		Impedance Ω	Attenuation dB/100 ft @ 400mhz	Capacitance pF/FT @1k HZ
		AWG	Strands	Plating	Material	Ø in./mm	AWG	Plating	Ø in./mm	Material	Ø in./mm			
178-6179	25	20	19/32	SPC	Silicone	0.165 / 4.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**\*\*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](http://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.