

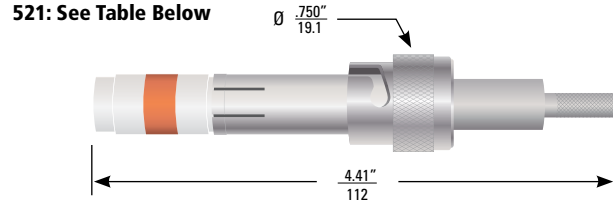
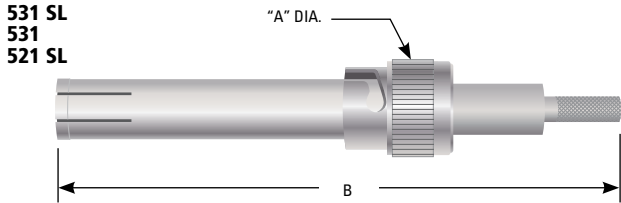
531 SL SERIES	10 kVDC	SEA LEVEL	-40° TO 85°C
531 SERIES	15 kVDC	70,000 FT	
521 SL SERIES	20 kVDC	SEA LEVEL	
521 SERIES	25 kVDC	70,000 FT	

A series of shielded high voltage connectors, kits and cable assemblies designed to minimize the risk of electrical shock to personnel through the use of recessed contacts. Both the panel and cable connectors have recessed contacts and will stand off the rated voltage in the unmated condition.

Note: Voltage ratings apply in the mated condition only. Unmated 521 rated voltage is 20 kVDC and 531 is 10 kVDC.

PLUG KITS

(Dimensions shown as in/mm)



SERIES	P/N	"A"	"B"	WIRE P/N
531 SL	167-3554	Ø.625 / 15.9	2.72 / 69.0	167-2669
531	167-4535	•	•	•
521 SL	167-3516	Ø.750 / 19.1	4.41 / 112	RG213/U
521	167-3516-1	•	•	RG214/U

521 P/N	WIRE P/N
167-4534	RG213/U
167-4534-1	RG214/U
167-4534-C	167-2669

• While plugs kits are available for customer-fabricated cable assemblies, Teledyne Reynolds highly recommends purchasing cable assemblies because of difficulties customers may experience in assembly and testing.
 • Assembly instructions found at www.teledynereynolds.com or by contacting Teledyne Reynolds' Engineering.

(• = Same value as above)

RECEPTACLES

Sealed, Front Mount

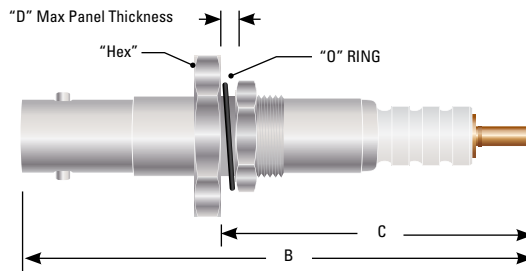
531 167-3555

- **Mounting:** Allow clearance for 1/2-28 UNEF thread
- **Panel Mounting Torque:** 42 to 48 in-lbs

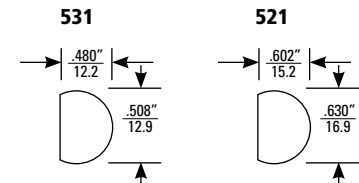
521 167-3517

- **Mounting:** Allow clearance for 5/8-24 UNEF thread
- **Panel Mounting Torque:** 90 to 95 in-lbs

- **Pressure:** Sealed for 1 ATM differential pressure
- **Max Leakage:** 1x10⁻⁶ cc/s He @ 1 ATM differential



OPTIONAL MOUNTING HOLES



SERIES	P/N	"HEX"	"B"	"C"	"D"
531	167-3555	.750 / 19.1	2.70 / 68.6	1.62 / 41.2	.312 / 7.92
521	167-3517	.930 / 23.6	3.94 / 100	2.56 / 65.0	.250 / 6.35

Sealed, Rear Mount, Cable Assembly Kit

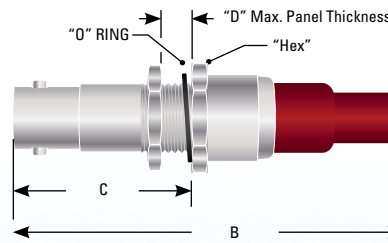
531: 167-9096 Uses Wire 167-2669

- **Mounting:** Allow clearance for 1/2"-28 UNEF thread
- **Panel Mounting Torque:** 42 to 48 in-lbs

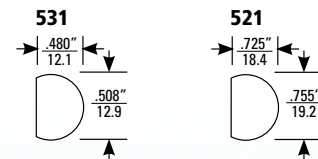
521 167-9100 Uses Wire RG213/U

- **Mounting:** Allow clearance for 5/8"-24 UNEF thread
- **Panel Mounting Torque:** 90 to 95 in-lbs

- **Pressure:** Sealed for 1 ATM differential pressure
- **Max Leakage:** 1x10⁻⁶ cc/s He @ 1 ATM differential



OPTIONAL MOUNTING HOLES



SERIES	P/N	"HEX"	"B"	"C"	"D"
531	167-9096	.750 / 19.1	2.88 / 73.0	1.270 / 32.3	.312 / 7.92
521	167-9100	1.06 / 27.0	4.00 / 102	2.08 / 52.8	.437 / 11.1

****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.

531 SL SERIES	10 kVDC	SEA LEVEL
531 SERIES	15 kVDC	70,000 FT
521 SL SERIES	20 kVDC	SEA LEVEL
521 SERIES	25 kVDC	70,000 FT

-40° TO 85°C

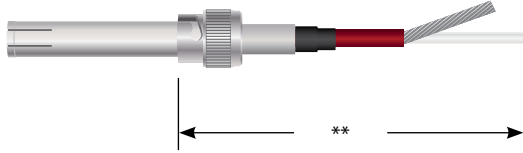
531 SL AND 531 CABLE ASSEMBLIES

Single-Ended, Shielded, Pigtail

531 SL: 167-4451

531: 167-9003

- Uses Wire 167-2669

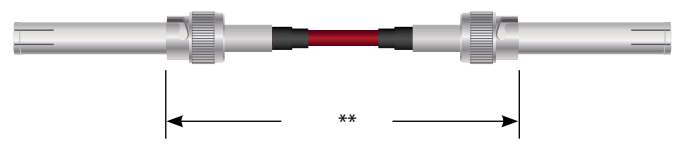


Double-Ended, Shielded

531 SL: 167-3648

531: 167-4561

- Uses Wire 167-2669

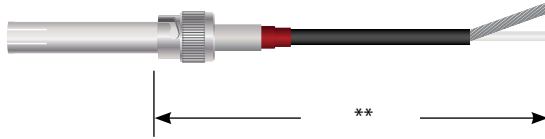


521 SL CABLE ASSEMBLIES

Single-Ended, Shielded, Pigtail

167-4450-1

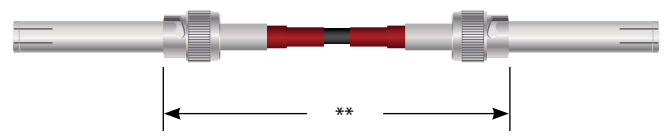
- Uses Wire RG213/U



Double-Ended, Shielded

167-3638-1

- Uses Wire RG213/U



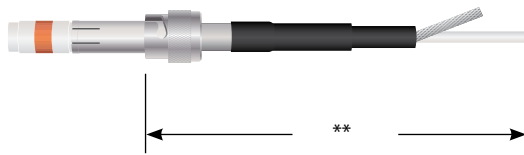
SINGLE-ENDED	DOUBLE-ENDED	WIRE P/N
167-4450-4	167-3638-4	RG214/U

521 CABLE ASSEMBLIES

Single-Ended, Shielded, Pigtail

167-4596-1

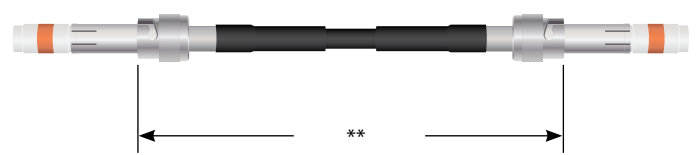
- Uses Wire RG213/U



Double-Ended, Shielded

167-4569-1

- Uses Wire RG213/U



SINGLE-ENDED	DOUBLE-ENDED	WIRE P/N
167-4596-4	167-4569-4	RG214/U
178-6404*	178-9879*	167-2669

*Not shown

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
531 SL	10	Sea Level	-40 to 85	10	Plastic	Plastic	Bayonet	Brass/Ni	BeCu/Au	Brass/Au	Shielded	PE	Crimp	N/A	13
531	15	70,000	•	•	•	•	•	•	•	•	•	•	•	31	N/A
521 SL	20	Sea Level	•	20.4	•	•	•	•	•	•	•	•	•	N/A	28
521	25	70,000	•	•	•	•	•	•	•	•	•	•	•	41	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			
167-2669	20	16	19/29	TPC	Silicone	.118 / 3.00	36	TPC	.150 / 3.81	PE	.195 / 4.95	31	16	48