

## Series 531

A series of 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.

This series of connectors is rated at 10 KVDC and will operate at altitudes up to 10,000 feet. Operating temperature is from -40°C to +85°C.

## **Applications**

Series 531 connectors are ideal for laboratory and research applications and the plug and receptacle are interchangeable with Kings connectors of the same type. The connectors are also well suited for use in ground based power supplies and other components where reliable high voltage connections are essential. These connectors feature a spring finger contact on the plug body which assures a reliable ground circuit prior to engagement of the center contact, further reducing the risk of electrical shock.

## **Interface cleaning**

Cable Assembly

**Tolerance Chart** 

Length vs Manufacturing

High voltage connectors must always be cleaned prior to mating. The proper cleaning method is to wipe or spray the interface area with isopropyl alcohol and immediately blow an inert gas such as dry nitrogen over the interface area until dry. No other cleaning method should be attempted.

531 Receptacle P/N 167-3555





531 Plug P/N 167-3554

to 10,000 feet, maximum

WARNING: These connectors should NEVER be handled, mated or unmated when voltage is applied.

## CENEDAL SDECIEICATION

10 KVDC Sea level
?
Plastic
Plastic
0.625/15.8mm
Brass/nickel plate
.052/1.32mm
Brass/gold plate
Be Cu/gold plate
Yes
Yes
15 KVDC @ sea level

15 11 v D C (te) sea ic vei	
Length: Feet/M	Tolerance: inches/mm
7.5/2.28 or less	0.25/6.3
7.5/2.2 to12.5/3.8	1.0/25.4
12.5/3.8 to 22.5/6.8	1.50/38.1
22.5/6.8 to 35/10.6	2.0/50.8
35/10.6 to 50/15.2	3.0/76.2
50/15.2 to 70/21.3	4.0/101.6
70/21.3 to 100/30.4	5.0/127