SID 15 KVDC

GENERAL SPECIFICATIONS
For Limited Military/Aerospace Applications

SID Series *

This series of push-on/pull-off 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 good corona characteristics.

SID assemblies are especially well suited for interconnecting high voltage system components. The excellent flexibilty of the silicone cable makes system cable routing simple and reliable.

A variety of panel connectors are available as well as straight and right angle cable plug assemblies.

SID assemblies are widely used in:

- Electronic Countermeasure Systems
- TWT connections • Lasers

Interface cleaning

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.

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

GENERAL SPECIFICATION	Cable Assemblies (female)	Receptacles (male)
Altitude operating voltage (mated)	**15 KVDC**	**15 KVDC**
Altitude rating	**To 70,000 ft.**	**To 70,000 ft.**
Operating temperature range	**-55°C to + 95°C**	**-55°C to +95°C**
Insulator material	**Silicone Rubber**	**Plastic**
Coupling	**Push-on/pull off**	**Push on/pull off**
Contact material/finish	**Be Cu/Gold plate (female)**	**Brass/Gold (male)**
Cable type	**Silicone Rubber**	**N/A**
100% voltage test @ 70,000 ft. (simulated) and ambient temperature	**20 KVDC**	**20 KVDC**

Cable Assembly Length vs Manufacturing Tolerance Chart

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

* Reynolds Industries, Inc. acquired the SID product line from Rowe Industries, Inc. in 1997.