



HVID
Series

High Voltage Inline Disconnects

17 to 60 KVDC
For Ground Level Applications

General Specifications

High Voltage Inline Disconnect Series*

These In-line Disconnects use Push-on, Pull-off friction mating of the two silicone rubber halves to achieve corona resistant high voltage performance.

The Disconnects are available as single-ended pre-tested assemblies. Kits containing an insulator and a contact are available for field installation. Assembly of these kits requires the use of RTV silicone adhesive.

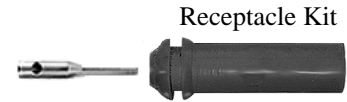
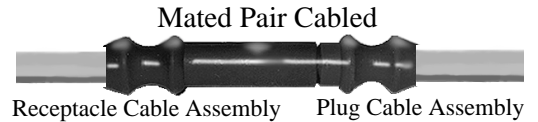
High Voltage In-line Disconnects are used in ground level applications for:

- Electronic Countermeasure Systems
- Travelling Wave Tube Connections
- Lasers
- High Voltage Power Supplies
- CRT Displays

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.



See pp. 14 & 15 for Kit ordering information and cable diameter. See p. 44 for Kit assembly instructions. See p. 40 for cable specifications.

GENERAL SPECIFICATION

Voltage rating (mated)

Altitude rating

Operating temperature range

Insulator/body material

Contact type

Contact material/finish

Wire type

Kit contents

100% Voltage test @ sea level & ambient temperature:

17 KVDC Version

45 KVDC Version

60 KVDC Version

Plug Disconnect

17 to 60 KVDC

To 15,000 ft.

-40°C to +85°C

Silicone rubber

Female

Copper alloy/Gold plate

Silicone rubber

Insulator & female contact

25 KVDC

60 KVDC

70 KVDC

Receptacle Disconnect

17 to 60 KVDC

To 15,000 ft.

-40°C to +85°C

Silicone rubber

Male

Brass/Gold plate

Silicone rubber

Insulator & male contact

25 KVDC

60 KVDC

70 KVDC

Cable Assembly
Length vs Manufacturing
Tolerance Chart

Length: feet/M
7.5/2.28 or less
7.5/2.2 to 12.5/3.8
12.5/3.8 to 22.5/6.8
22.5/6.8 to 35/10.6
35/10.6 to 50/15.2
50/15.2 to 70/21.3
70/21.3 to 100/30.4

Tolerance: inches/mm
0.25/6.3
1.0/25.4
1.50/38.1
2.0/50.8
3.0/76.2
4.0/101.6
5.0/127

* Reynolds Industries, Inc. acquired the In-line Disconnect (HVID) product line from Rowe Industries, Inc. in 1997.