

Series

401
HI-REL

40 KVDC

GENERAL SPECIFICATIONS

For Military/Aerospace Applications

Series 401

These HI-REL connectors, rated at 40 KVDC, are shielded with spring grounding fingers on the plug. The connectors will operate at altitudes up to 70,000 ft. at the rated voltage. Operating temperature is -55°C to +125°C.

Applications

Series 401 connectors are used in both airborne and ground high voltage power supplies and components requiring high voltage interconnections.

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 SPECIFICATIONS

Operating voltage up to 70,000 ft.

Operating temperature range

Receptacle insulator material

Plug insulator material

Bayonet coupling

Bayonet coupling nut diameter. Inches/mm

Body and coupling nut Material/finish

Male contact size (plug)

Male contact material/finish

Female contact material/finish

Hooded female contact

Crimp braid termination (plug)

Maximum panel thickness inches/mm

100% test voltage

40 KVDC

-55°C to +125°C

Plastic

Plastic with silicone rubber interface seal

Yes

1.16/29.4

Brass/nickel

12 gauge

Brass/Gold

Be Cu/Gold

Yes

Yes

.380/9.6

60 KVDC @ 70,000 ft. altitude (simulated)

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

Cable Assembly
Length vs Manufacturing
Tolerance Chart