



IEC Corporation
Slip Ring Assemblies
Since 1955

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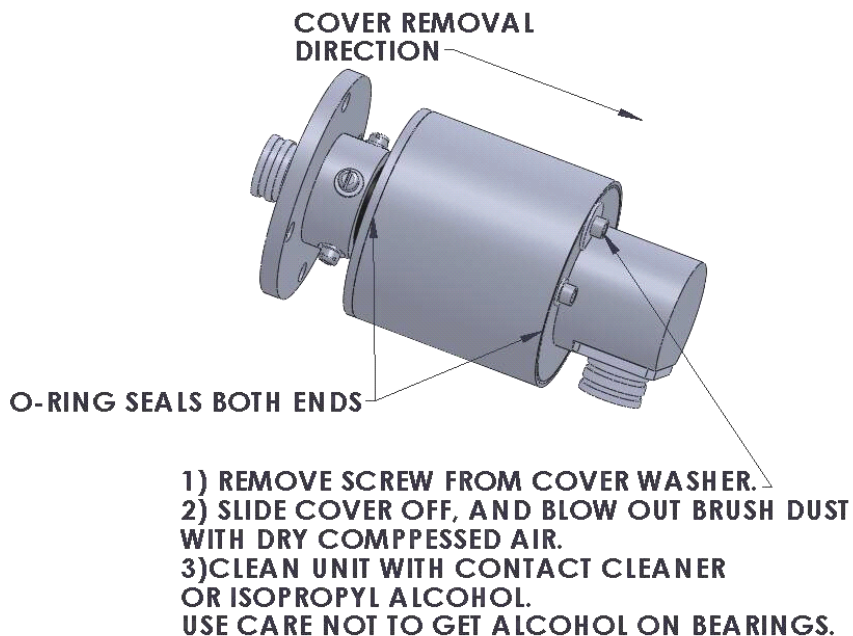
IEC Slip Ring Recommended Maintenance:

Routine cleaning is recommended after every 500,000 slip ring revolutions; the primary purpose is to remove accumulated brush dust to prevent arc-over.

Standard Flange Mount Slip Ring

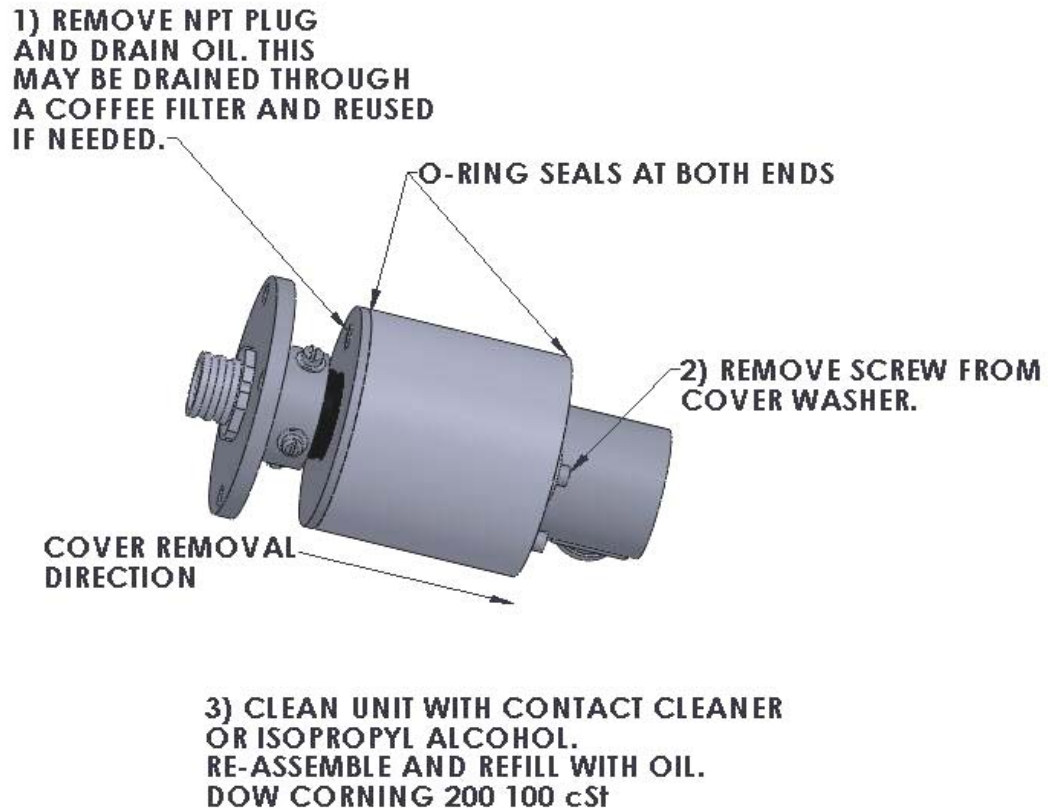
1. Remove cover:
 - a. Remove the screw from cover washer **ONLY**.
 - b. Slide cover towards the non-rotating end to remove.
2. Clean:
 - a. Using dry compressed air, clean the brush dust off the major components.
 - b. Using a cotton swab dampened with isopropyl alcohol, clean the surface of the rings. Use care to avoid getting the alcohol in the bearings.
3. Reassemble:
 - a. Replace the cover and refasten the cover washer screw.

****Figure 1**



Standard Flange Mount with Synthetic Oil Slip Ring

1. Drain oil:
 - a. Using the NPT plug located on the face of slip ring closest to the rotating flange, drain the oil from the unit. (This may be drained through a coffee filter and reused if needed).
2. Remove cover:
 - a. Remove the screw from cover washer ONLY.
 - b. Slide cover towards the non-rotating end to remove.
3. Clean:
 - a. Rinse the remaining brush dust from the slip ring with clean oil (Dow Corning 200-100 CST), or spot clean with contact cleaner/isopropyl alcohol.
4. Reassemble:
 - a. Replace the cover and refasten the cover washer screw.
5. Refill with oil (Dow Corning 200-100-CST).



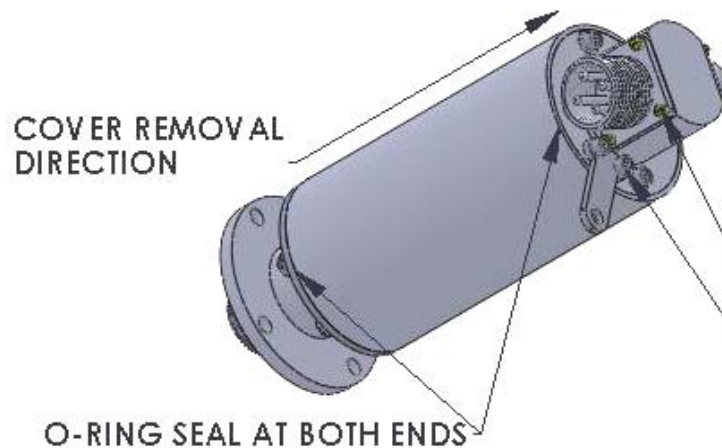
****Figure 2**

**The Figures above depict a few generic slip rings. Slip rings with different connectors/leads may require slightly different steps to disassemble, in particular to remove the cover.

FMSE Slip Ring

This is a 2000VDC rated unit. Cleaning intervals should be performed at ~1 million revolutions.

1. Remove cover:
 - a. Remove the two screws from the anti-rotation tab and the four screws from the connector ONLY.
 - b. Slide cover towards the non-rotating end to remove.
2. Clean:
 - a. Using dry compressed air, clean the brush dust off the major components.
 - b. Using a cotton swab dampened with isopropyl alcohol, clean the surface of the rings. Use care to avoid getting the alcohol in the bearings.
3. Reassemble:
 - a. Replace the cover and refasten anti-rotation tab screws.



- 1) REMOVE THE TWO SCREWS ON THE ANTI ROTATION TAB AND REMOVE THE 4 SCREWS ON THE CONNECTOR.
- 2) MOVE CONNECTOR AWAY FROM COVER, THEN SLIDE COVER OFF.
- 3) BLOW OUT BRUSH DUST WITH DRY COMPRESSED AIR. CLEAN RINGS WITH ISOPROPYL ALCOHOL ON A COTTON SWAB. USE CARE NOT TO GET ALCOHOL ON BEARINGS.

Hipot and Leakage Resistance

Any standard unit rated at 1000VRMS is tested at 2100VDC between each ring and all other rings and each ring to the case. Leakage Resistance 10000MegaOhm min.

Series Resistance

Typical resistance of a standard IEC slip ring with connectors at both ends, and wired with 20AWG wire, is 8 milliohms pin to pin.

Resistance will vary with each slip ring configuration.