The body of the 8001 neutralizing bar is made of an extruded rigid PVC and reinforced epoxy resin in the center trough of the bar for extra rigidity. There is no high voltage cable in the 8001 neutralizing bar. Both ends of the bar have identical looking end blocks. Both end blocks are designed to accept Universal V.AC high voltage connectors. One end block has connector pins, while the other has connector sockets covered with socket caps. This design gives the user several options for connecting the neutralizing bar.

Ionizing electrodes in the 8001 neutralizing bar are spaced 3/4” (19 mm) apart and converge into a single row from each side of the bar. Ionizing electrodes are connected to the high voltage power source through resistors to ensure low current at the electrodes for safety.

The high voltage power supply can be installed independently from the bar and connected to the bar via a high voltage extension cable; or the power supply can be mounted directly on the bar, thus eliminating the need for a high-voltage cable.
SPECIFICATIONS SHEET

MODEL 8001 STATIC NEUTRALIZING BAR

SPECIFICATIONS

Type: Shockless, nominal pin short-circuit current 80 µA RMS

Ionizing electrode material: Tungsten

Maximum material speed: Neutralizes charged materials traveling over 2500 fpm (800 m/min)

Maximum operating distance: 8” (200 mm) for web span neutralization; 20” (500 mm) rolls neutralization;
Note: Actual distance depends on the application

High voltage connections: Universal V.AC connector (male and female)

Cable: Quick-disconnect extension cables, up to 15 ft. long, with Universal VAC cable plugs (male and female)

Housing material: Rigid PVC, UL flammability rating V-0

Ambient operating temperature: 0°C to +50°C (32°F to 122°F)

Standard bar lengths: 8-1/4” (200 mm) min. to 119-1/4” (3000 mm) maximum with 1-1/2” (38 mm) length increments

Certifications: UL and CUL Recognized, CE

There are two provisions for mounting the 8001 neutralizing bar. The longer bars should be mounted using the provided back mounts. Each back mount consists of a square cap screw, a 2-in.-long (50 mm) spacer with one notched end and a nut with a washer. The bar enclosure is designed to allow cap screws (1/4-20 or M6 thread) to slide along the narrow slot in the back of the bar enclosure. For each 24” (600 mm) of bar length added, an additional back mount is required. The shorter bars can also be mounted using two round bushings that attach to the end blocks of the bar and mounting clamps with 1/4-20 screws.

NOTE: The length of the spacers provides enough clearance from a mounting surface to disconnect the cable plug. If there is no mounting surface against the ends of the bar, the spacers can be shortened.

Two or more 8001 neutralizing bars can be connected to a single high voltage power supply using high voltage extension cables. The Virtual AC 8011 high voltage power supplies are capable of powering up to 400” (10 m) of 8001 neutralizing bars.