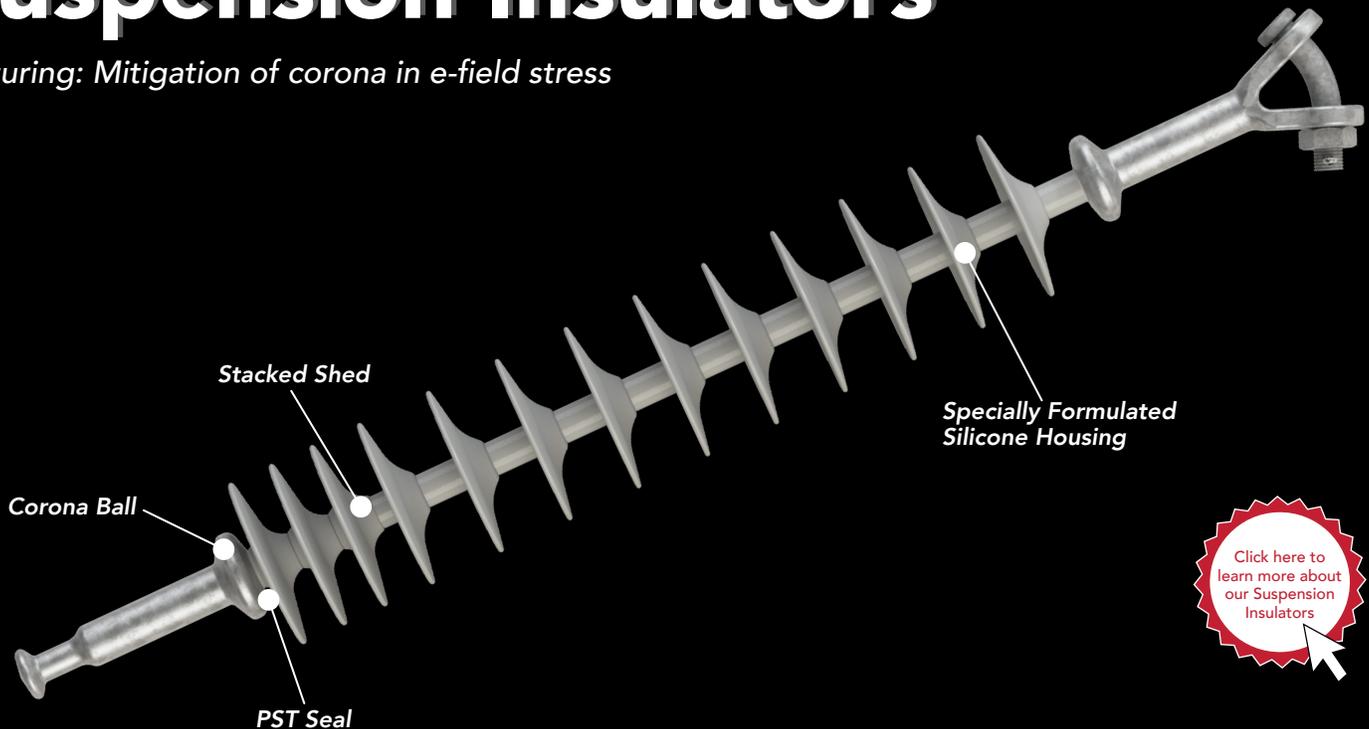


# Suspension Insulators

Featuring: Mitigation of corona in e-field stress



Utilities rely on us for products that will stand the test of time with as little maintenance as possible over the years. At MacLean Power Systems, we have refined our insulator design and manufacturing process to meet everyone's needs.

## Polymer Longevity

- » MacLean's silicone rubber formulation, introduced in 1984, is lab tested and certified, and is field proven in the most contaminated environments and applications.
- » Our silicone is fully bonded to the corrosion resistant E-Glass core and sealed with a multi-layer PST seal for optimal protection against all elements.

## Defense Against Aging

- » Stacked shed design was implemented by MPS in 2002 after years of research and testing. MPS now applies stacked sheds on all suspension insulators to protect the vulnerable rubber sheath at the line end of the insulator from premature aging due to High E-Field Stresses, Corona Cutting, and Water Droplet Corona.
- » At lower voltages (below 230kV), the Stacked Sheds provide protection for applications without corona rings, potentially reducing the overall cost of the insulator. At higher voltages where corona rings are required, the stacked sheds work with the corona rings to protect against degradation that the corona by itself may not fully protect.

## Stress Mitigation

- » MPS corona balls and smart fit corona rings provide protection against mechanical damage and prevents exposure of the core rod at the critical line end of the insulator.
- » Smart Fit Corona Rings are designed in a manner where the ring will only fit one way on the geometric shape of the corona ball attachment feature, ensuring proper field installation.

## E-Field Modeling

- » MPS utilizes the latest technology in E-field modeling to test how an insulator will perform in the field before it's even manufactured.
- » Our MPS experts can pinpoint where the stresses will be on your line and decide which MPS product will best reduce those stresses.



Click to contact us online or call our customer service department at **855-MPS-SHIP**



Click here to be directed to [www.macleanpower.com](http://www.macleanpower.com) to see our full line of suspension insulator products