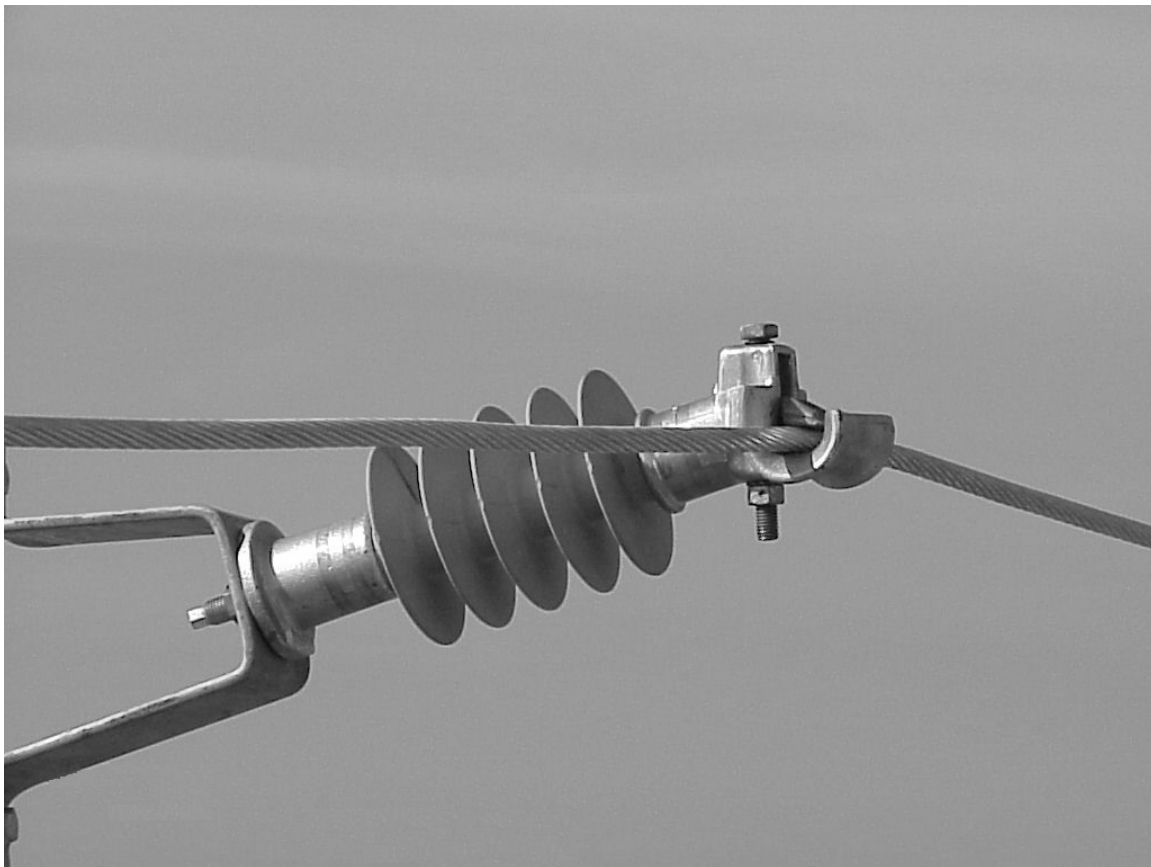




K-LINE INSULATORS LIMITED
TORONTO, ONTARIO, CANADA

Catalogue D-LP

DISTRIBUTION SILICONE INSULATORS **Line Post** *15 kV to 69 kV*



Distribution Silicone Insulators Line Post

Insulator contamination is a common problem on overhead lines. The fundamental element for interruptions with contaminated insulators is moisture. Wet atmospheric conditions result in water filming on surfaces and causing leakage currents to develop. On wood structures, leakage currents can cause pole top fires. On steel structures, leakage currents can develop into faults.

Silicone offers the ultimate solution in line post insulators. Because of its hydrophobicity, this material inherently resists water filming thereby limiting leakage currents. Silicone insulators reduce leakage currents, even when contaminated and require less frequent washing. The savings in such maintenance costs are added benefits of using silicone insulators.

K-Line silicone polymer distribution line post insulators are manufactured and tested to world-class polymer insulator standards, CEA LWIWG-02. K-Line Insulators Limited is registered to ISO 9001 Quality Systems.

PERFORMANCE BENEFITS

The performance benefits of K-Line Insulators' distribution line post insulators are listed below.

- Improves Reliability (by minimizing interruptions and outages due to vandalism, pole fires, and flashovers in all types of environments)
- Eliminates or Reduces Maintenance (such as washing and trouble calls) and is compatible with existing plant
- Improves Power Quality (less RI and TVI)
- Energy Efficiency (lower losses due to lower leakage currents)
- Safety (light weight for handling and installation)
- Service Life (consistent performance over its service life)
- Life Cycle Cost (savings over porcelain insulators)

APPLICATION

Distribution line post insulators are used on overhead distribution lines operating at and below 69 kV. These insulators are commonly installed on metal or wooden structures to horizontally or vertically support the line conductor. Also, these insulators are used to support high voltage conductor jumpers or leads.

ROD

The core rod of the insulator is made of a high quality fiberglass that has been specially formulated for electrical and mechanical applications.

HOUSING AND SHEDS

The housing and sheds of the insulator are one piece, injection molded silicone rubber that chemically bonds to the core rod. This ensures that the interface between the rubber and rod is impenetrable against moisture ingress.