

1. Scope

This specification applies to the District's requirements for composite, non-ceramic, polymeric suspension insulators for deadending conductors on a 12.47 Grd-Y/7.2kV electrical distribution system. The polymeric covering, including the weathersheds, shall be made of silicone rubber.

2. Material ID Number

This specification applies to the following District Material ID number: 938326

3. Reference Standard

Except as modified herein, these insulators shall meet the applicable requirements of the latest revision of ANSI C29.13.

4. Physical Characteristics

Section Length: 13.0" +/- 0.6" / Weathershed Diameter: 4.5" max. /
Color: Sky Gray, ANSI No. 70 / Weight: 3 lbs max.

All parts of the fiberglass rod shall be completely covered with the same silicone rubber polymeric material as the weathersheds. The entire length of the polymeric covering, including the weathersheds, shall be one continuous, seamless piece of material. Weathersheds shall retain their original shape after severe deformation. Weathersheds shall shed water whether mounted horizontally or vertically and shall be self-cleaning with rain. Insulators shall be similar in appearance to the insulator illustrated below in Fig. 1.

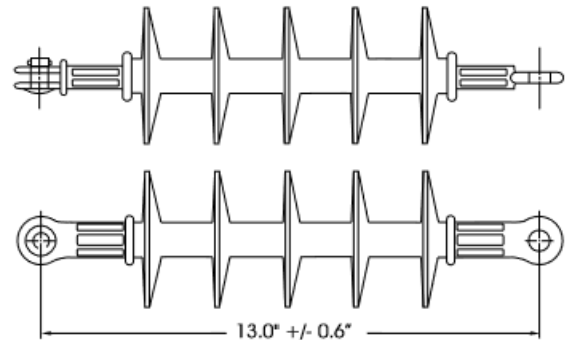


FIG. 1

5. End-Fittings

Each insulator shall be equipped with an eye and clevis end-fitting conforming to ANSI C29.13. A 5/8" cotter bolt and stainless steel key shall be installed in each clevis fitting. End-fittings may be of high strength aluminum alloy or malleable or ductile iron, galvanized per ASTM A-153, latest revision.

6. Ratings

Minimum Mechanical Strength Ratings	
Specified Mechanical Load (SML) (lbs)	15,000
Routine Test Load (RTL) (lbs)	7,500
Torsional Load (ft-lbs)	35
Minimum Electrical Specifications	
Leakage Distance (inches)	14
Dry Flashover 60 Hz (kV RMS)	90
Wet Flashover 60 Hz (kV RMS)	65
Positive Critical Impulse Flashover (kV peak)	140
RIV Test Voltage at 60 Hz (kV RMS to ground)	15
Max. RIV at 1000 kHz (micro volts)	10

7. Markings

Each insulator shall be permanently marked with the manufacturer's name or logo and the date of manufacture. Each insulator shall also be marked with the specified mechanical load rating (SML) with appropriate units. The markings shall be legible and durable. Each carton of insulators shall be marked with the manufacturer's name, the type of insulator and the insulator part number.