

Low Voltage Bushing

1.2 kV Class Pole Mount Low Voltage Polymer Bushing

GENERAL

1. Polybutylene terephthalate (PBT), an ultraviolet inhibited glass filled thermoplastic.
2. Surpass the industry requirements on strength on molded thread & body resistance.
3. Interchangeable with most polymer and ceramic bushings.
4. Relative temperature index (RTI) up to 284°F (140°C) to provide good low temperature performance to -40°F (-40°C).
5. Terminals with the best corrosion resistance in the market & for eyebolt item, we offer a better torque strength.

EXCEEDING STANDARDS

LV bushing were proved according IEEE, IEC and ASTM standards.

BUSHING PERFORMANCE TEST

Dielectric Test

1. AC dry test: The bushings withstand 10 kV for 1 minute test without failure.
2. AC wet test: The bushing withstand 6 kV for 10 seconds test without failure.
3. Dry lightning impulse voltage withstand test: Fifteen impulses of 30 kV each polarity waves when applied results in no discharge or flashover.
4. Continuous Current Temperature Rise. When conducting maximum rated current, the temperature rise of each bushings is no more than 15°C above top oil. Also the bushings tested with 150% of the rated current resulted in no damage or excessive temperature rise.



Environment

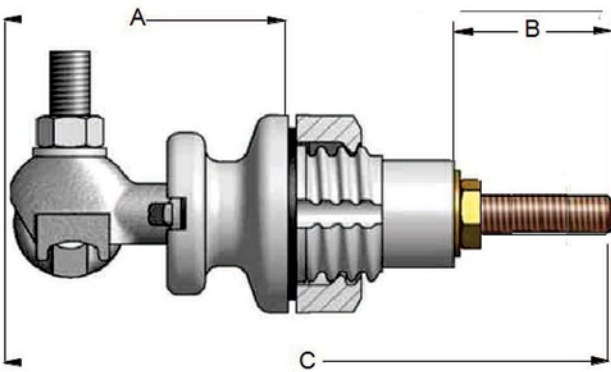
1. Salt spray (fog) test: No oxidation. Test Terminals Exposition: 500 hrs
2. Oil compatibility: The oil tests were performed before and after heating. Material is compatible with transformer oil (mineral and ester).

MECHANICAL

- Cantilever load withstand test:** Test was performed in a 10 psi pressurized tank and applied 100 kg on each bushings. No damage, deformation, rupture, or leakage.
- Torque test on connectors:** The resistance of our connectors in torque test is above the market/industry requirements. When tested against our competitors, we obtained much better values. Our average resistance in most cases is up to 50% above the minimum guarantee of 30 ft-lbs & 50 ft-lbs.
- Molded thread strength:** Values of torque test are above the market/industry requirements, Results: The resistance was above 30 ft-lbs.
- Thermal cycle:** Bushings were installed in at 17 ft-lbs in a tank filled with transformer oil and exposed to 10 complete heat cycles (140°C to -40°C), no leaks or cracks were found. The nuttorque was also measured after the test, showing 56% retention. This value is 33% higher than our closest competitors.

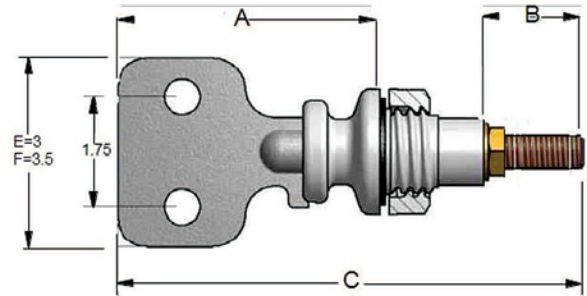
DIMENSIONS

POLYMER BUSHINGS INTERNAL CLAMP
1.2 kV CLASS, 30 kV BIL, 250 A & 500 A, EYEBOLT CONNECTOR



Item Number	Eye Bolt Dia.	Body Length (A)	Length (B)	Total Length (C)	Stud	Current Rating (amperes)
B1148	15.8	70.7	41.4	153.0	3/8" - 16 UNC - 2A	250
B1147	20.5	76.9	41.4	159.2	3/8" - 16 UNC - 2A	250
B1149			46.9	164.7	1/2" - 13 UNC - 2A	500

POLYMER BUSHINGS INTERNAL CLAMP
1.2 kV CLASS, 30 kV BIL, 250 A & 500 A, SPADE CONNECTOR



Item Number	Spade Type connector	Spade Thickness	Body Length (A)	Length (B)	Total Length (C)	Stud	Current Rating (amperes)
B1438	2 holes, "E" type	6.4	103.5	39.0	183.4	3/8" - 16 UNC - 2A	250
B1439				43.9	247.9	1/2" - 13 UNC - 2A	500
B1440	4 holes "F" type	6.4	163.1	36.0	240.0	3/8" - 16 UNC - 2A	250
B1441				43.9	247.9	1/2" - 13 UNC - 2A	500

- Products supplied include all components as depicted, and the top gasket for the spade /eyebolt.
- All reference dimensions are in inches unless otherwise specified.
- Spade thickness are 0.25 in.
- All our connectors and spades are tin plated.