

BUS BAR INSULATING SHROUD / BOOT

Great savings in Switchgear component cost by investing in Busboot

Bus boot - Vinyl is flexible electrical insulating boot / shroud for busbar and switchgear connections upto 36 kV. These pliable boots can be installed, removed or replaced in few minutes. Made from specially formulated Polyvinyl Chloride (PVC) material to provide excellent electrical insulation and to withstand higher operating temperature continuously.

Busboot provides reduction in air clearance, which helps designing compact panels; thereby reduces the material costs by saving in busbar lengths, sheet metal components, etc

Standards :

- ❖ UL Certified (File No. E335936)
- ❖ Tested to ANSI C 37.20.2 Standards for medium voltage switchgear application upto 36 kV.

-: FEATURES & BENEFITS :-

- ❖ The most cost effective way to insulate connections in Switchgears.
- ❖ High Dielectric Strength.
- ❖ Suitable for insulating busbar joint works applications (tees, elbows, etc.)
- ❖ Easy to Install or Remove as often as required.
- ❖ Complete with fasteners.
- ❖ Highly resistant to UV rays and ozone. Good for outdoor or indoor applications.

Recommended Thickness

| VOLTAGE | THICKNESS (min.) |
|---------|------------------|
| 3.3 kV | 1.25 mm. |
| 12.0 kV | 2.00 mm. |
| 18.0 kV | 2.50 mm. |
| 24.0 kV | 3.00 mm. |
| 38.0 kV | 4.50 mm. |

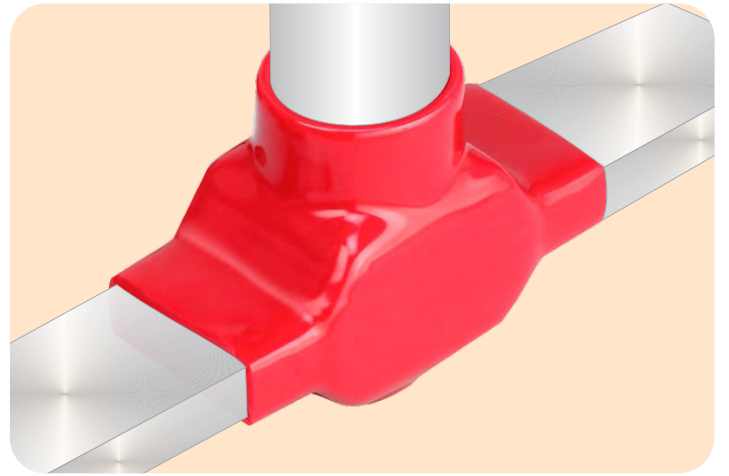
- ❖ New design moulds can be developed in a week.
- ❖ Unique Over-lapping design ensures additional protection against Flash-over.
- ❖ Excellent electrical & thermal properties.
- ❖ Customised design possible for any shapes or connections.
- ❖ Low tooling cost...a fraction of injection molding.
- ❖ No internal stress molded into parts.
- ❖ Large parts can be made without significant tooling investment.

Technical Specifications (As per ASTM Standards)

| TEST DESCRIPTION | RECORDED VALUE | TEST METHOD |
|-------------------------------|-----------------------------|-------------|
| 1. Di-electric Strength | 16 kV/mm. (min.) | ASTM D149 |
| 2. Tensile Strength | 12 N/mm ² (min.) | ASTM D638 |
| 3. Elongation | 350% (min.) | ASTM D638 |
| 4. Density | 1.23 gm/cm ³ | ASTM D792 |
| 5. Water Absorption | 0.5% (max.) | ASTM D570 |
| 6. Hardness | 65 ± 5 shore A | ASTM D2240 |
| 7. Continuous Operating Temp. | -20°C to 115°C | IEC 216 |
| 8. Flammability | Pass | UL 94-V0 |

Technical Qualification Report : QR 1018





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TECHNICAL DRAWING

