



Bus Tube is heat shrinkable tube designed to insulate busbar systems up to 66KV & to protect against accidental flash-over. The tubes are manufactured from high quality non tracking cross-linked polyolefin material. Meets ANSI C37.20.2 standards for switchgear application up to 66 kV.

### FEATURES & BENEFITS

- Reduce Busbar clearance.
- Prevent Busbar from chemical corrosion effected by strong acid, alkali, salt etc.
- Solve the problem of insulation among Busbar in Bus Duct.
- Halogen free, flame retardant.
- High dielectric strength.
- Highly Flexible for use on straight or angled bars without creasing.

### Technical Specification

| PROPERTIES                                     | VALUE                                                           | STANDARD   |
|------------------------------------------------|-----------------------------------------------------------------|------------|
| <b>Physical</b>                                |                                                                 |            |
| Tensile Strength                               | 12 N/mm <sup>2</sup> (Mpa) (min.)                               | ASTM D638  |
| Ultimate Elongation                            | 300 % (min)                                                     | ASTM D638  |
| Density                                        | 1.20 ± 0.2 gm/cm <sup>3</sup>                                   | ASTM D792  |
| Hardness                                       | 45 ±10 Shore D                                                  | ASTM D2240 |
| Water absorption                               | 0.5 % (max.)                                                    | ASTM D570  |
| <b>Thermal</b>                                 |                                                                 |            |
| Accelerated ageing                             | (120°C for 500 hrs)                                             | ASTM D2671 |
| a. Tensile Strength                            | 10 N/mm <sup>2</sup> (Mpa) (min.)                               | ASTM D638  |
| b. Ultimate Elongation                         | 250 % (min.)                                                    | ASTM D638  |
| Low Temperature Flexibility (-40°C for 4 hrs.) | No Cracking                                                     | ASTM D2671 |
| Heat Shock (250°C for 30 min.)                 | No cracking or flowing                                          | ESI 09-11  |
| Shrink Temperature                             | 125°C                                                           | IEC 216    |
| Continuous Temperature Limit                   | -40 to +105°C                                                   | IEC 216    |
| <b>Electrical</b>                              |                                                                 |            |
| Dielectric Strength                            | 22 kV/mm.(min)                                                  | ASTM D149  |
| Volume Resistivity                             | 1 x 10 <sup>14</sup> Ohm.cm (min)                               | ASTM D257  |
| Dielectric constant                            | 5 (max.)                                                        | ASTM D150  |
| Resistant to track & erosion                   | No Tracking, erosion or flame failure up to 3.25 kV for 20 min. | ASTM D2303 |

### Extra Heavy Wall Tube [Upto 66KV]

| Gala Size   | D mm   | d mm   | T<br>(±10%) | Length |
|-------------|--------|--------|-------------|--------|
|             | (min.) | (max.) | mm          | mm     |
| GEHB 50/20  | 50     | 20     | 6.2         | 1500   |
| GEHB 75/28  | 75     | 28     | 6.2         | 1500   |
| GEHB 100/38 | 100    | 38     | 6.2         | 1500   |
| GEHB 120/45 | 120    | 45     | 6.2         | 1500   |
| GEHB 150/60 | 150    | 60     | 6.2         | 1500   |



D,d : Internal Diameter; T : Thickness

### Clearances With Insulation

| Voltage | Phase to Phase (mm) | Phase to Ground (mm) | UN-INSULATED<br>BUS BARS |
|---------|---------------------|----------------------|--------------------------|
| 66 KV   | 390                 | 520                  | 630                      |