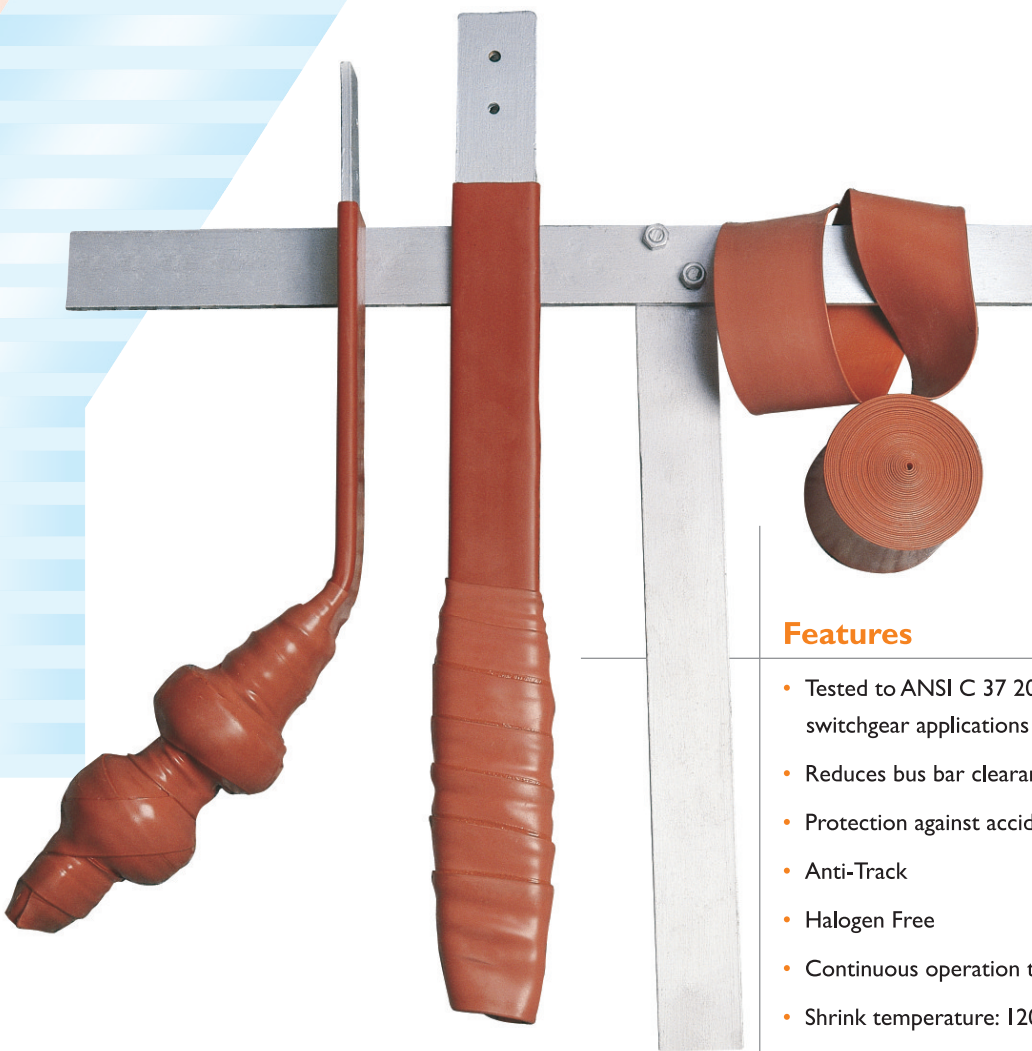




DHSIT

Heat Shrinkable Medium Voltage Insulation Tape

Anti-Track adhesive coated Heat Shrink Tape specially designed for insulation & protecting medium voltage bus bar upto 36 kV



Features

- Tested to ANSI C 37 20.2 standards for medium voltage switchgear applications to 25 kV
- Reduces bus bar clearance requirements
- Protection against accidental flashover
- Anti-Track
- Halogen Free
- Continuous operation temperature: -25°C to 130°C
- Shrink temperature: 120°C

DIMENSIONS

Available in width of 25 mm & 50 mm

TECHNICAL DATA

| Properties | Requirements | Test Method |
|---|-----------------------------------|-------------------|
| Physical | | |
| Tensile Strength | 8 N/mm ² (min.) | ASTM D412, ISO 37 |
| Ultimate Elongation | 200% (min.) | ASTM D412, ISO 37 |
| Volume Resistivity | 1×10^{12} ohms.cm.(min.) | ASTM D257 |
| Low Temperature Flexibility (4 hrs at -20°C) | No cracking | ASTM D2671 |
| Flammability | Self Extinguishing | ASTM D2671 |
| Heat Ageing (7 days at 175°C) | | |
| Tensile Strength | 7 N/mm ² (min.) | ASTM D2671 |
| Elongation | 200% (min.) | ASTM D2671 |
| Heat Shock | No cracking or flowing | ASTM D2671 |
| Electrical | | |
| Dielectric Strength | 10 kV/mm (min.) | ASTM D149 |
| Dielectric Constant | 3.4 | ASTM D150 |
| Tracking Resistance | Non-Tracking | ASTM D2303 |
| Corrosion | No corrosion | ASTM D2671 |
| Water Absorption | 0.5% (max.) | ASTM D570 |
| Adhesive | | |
| Adhesive Softening Point | 100°C | ASTM D28 |
| Low Temperature Flexibility | -25°C | ESI0913 |
| Tracking Resistance | Non-Tracking | ASTM D2303 |

MEDIUM VOLTAGE BUS BAR TAPE

For Service upto 36 kV over bolted Bus Bar

| ORDERING REF. Number | ROLL WIDTH (min.) | BACKING THICKNESS RECOVERED (Nom) | ROLL LENGTH |
|-------------------------|----------------------|--------------------------------------|-------------|
| | mm | mm | m |
| DHSIT - 1 | 25.0 | 1.00 | 5 |
| DHSIT - 2 | 50.0 | 1.00 | 5 |

INSTALLATION INSTRUCTION

A 2/3 overlap is recommended

One layer application required upto 17 kV

Two layer application required upto 25 kv

Three layer application required upto 36 kv

CLEARANCE WITH INSULATION

For Service upto 36 kV over bolted Bus Bar

| SYSTEM VOLTAGE | BIL kV | p to p (mm) | p to g (mm) |
|-------------------|-----------|----------------|----------------|
| 15 kV | 95 | 64 | 74 |
| 17 kV | 110 | 86 | 106 |
| 25 kV | 125 | 114 | 152 |
| 36 kV | 175 | 200 | 285 |

P to p : Phase to Phase orientation

p to g : Phase to ground orientation

Spacing based on metal to metal

dimensions prior to insulation

Space based on insulation wall thickness per application range of above tables