

Bus Bar Heat Shrink Tube

S1-1 Bus Bar Insulation Heat Shrink Tube

Introduction

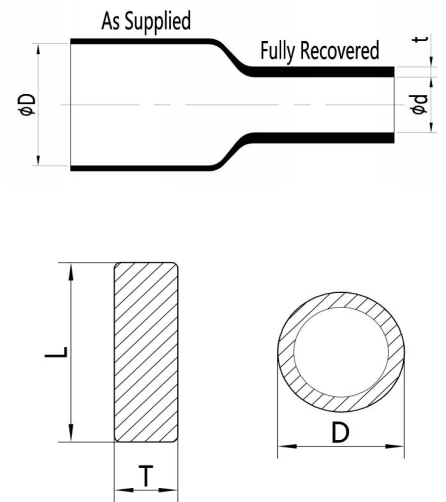
Environmental friendly flame retardant polyolefin material, can be applied in 0.6kV to 1.2kV power switchgear, providing insulation enhancement, protection against flashover or accidental discharge. Especially suitable for switchgear with limited space, it can be used for circular and rectangular copper or aluminum busbars.

Features

- Operating temperature: -40 to 105°C
- Environmental friendly, RoHS compliant
- Minimum full recovery temperature: 125°C
- Shrink ratio: 2:1 & 2.5:1 & 3:1
- Voltage class: 0.6kV to 1.2kV
- Standard Color: Black, Red, Yellow, Green or Blue
- UL224 file No.: E341796

Dimension

| Part No. S1-1 | As supplied(mm) | | After recovered (mm) | | Standard Length (m/roll) | Applicable rectangular busbar L+T(mm) | | Applicable round busbar(mm) | |
|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|---------------------------------------|-----|-----------------------------|---|
| | Inner diameter D (min.) | Inner diameter d (max.) | Inner diameter d (max.) | Wall thickness t (nom.) | | L | T | D | D |
| Shrink Ratio 2.5:1 | | | | | | | | | |
| 15/6 | 15 | 6 | 1.5 | 30 | 12 | 18 | 6.5 | 12 | |
| 30/12 | 30 | 12 | 1.6 | 30 | 17 | 39 | 11 | 25 | |
| 50/20 | 50 | 20 | 1.6 | 30 | 36 | 65 | 22 | 43 | |
| 75/30 | 75 | 30 | 1.7 | 30 | 39 | 86 | 27 | 55 | |
| 100/40 | 100 | 40 | 1.8 | 30 | 59 | 117 | 38 | 75 | |
| 120/50 | 120 | 50 | 1.9 | 30 | 70 | 150 | 44 | 90 | |
| 150/60 | 150 | 60 | 2.0 | 30 | 89 | 157 | 55 | 100 | |
| 175/70 | 175 | 70 | 2.5 | 30 | 117 | 190 | 75 | 120 | |
| 235/105 | 235 | 105 | 2.5 | 30 | 190 | 280 | 120 | 180 | |
| Shrink Ratio 3:1 | | | | | | | | | |
| 30/10 | 30 | 10 | 1.8 | 30 | 17 | 39 | 11 | 25 | |
| 75/25 | 75 | 25 | 2.0 | 30 | 39 | 86 | 27 | 55 | |
| 100/35 | 100 | 35 | 2.3 | 30 | 59 | 117 | 38 | 75 | |
| 120/40 | 120 | 40 | 2.5 | 30 | 70 | 150 | 44 | 90 | |
| 150/50 | 150 | 50 | 2.5 | 30 | 89 | 157 | 55 | 100 | |



Technical Data

| Property | Test Method | Requirement |
|--|---------------------|--|
| Tensile Strength | ASTM D2671 | ≥10.4 MPa |
| Ultimate Elongation | ASTM D2671 | ≥200% |
| Heat Aging (136°C/168h) | ASTM D2671 | |
| Tensile Strength | | ≥7.3 MPa |
| Ultimate Elongation | | ≥100% |
| Water absorption (23°C/24h) | ASTM D2671 | ≤1.0% |
| Low-temperature flexibility (-40°C/4h) | ASTM D2671 | No cracking |
| Heat shock (200°C/4h) | ASTM D2671 | No cracking, dripping or flowing |
| Dielectric strength | ASTM D2671 | |
| Thickness $t < 1.0\text{mm}$ | | ≥20 kV/mm |
| Thickness $1.0 \leq t < 2.0\text{mm}$ | | ≥16 kV/mm |
| Thickness $2.0 \leq t < 3.0\text{mm}$ | | ≥12 kV/mm |
| Volume resistivity | ASTM D2671 | ≥ $1.0 \times 10^{13} \Omega \cdot \text{cm}$ |
| Tracking and erosion resistance | ASTM D2303 | After 1hr at 2.5kV, and 1hr at 2.75kV, No burn penetration, no sustained burning |
| Flammability | ANSI C37.20 IEEE-27 | Self-extinguishing within 60S |
| Smoke index | IEC 61034 | ≤120 |
| Copper corrosion (150°C/168h) | IEC 60684-3-283 | No corrosion |