INTRODUCING

VOLINSU TUBING: ELECTRIC VEHICLE (EV) BUSBAR HEAT SHRINK TUBING

- **Flexible and lightweight design**
- **Insulation protection in medium-high voltage busbar**



VOLINSU EV Busbar (EVBB) heat shrink tubing is engineered to address the rigorous demands of electric vehicle applications, helping to provide superior high-voltage protection and performance. Its flexible design helps ensure easy installation while helping to maintain cable flexibility, crucial for the dynamic environment of electric vehicles. The tubing's excellent insulation characteristics help prevent flame propagation, enhancing the safety of vehicle operators and passengers. With a 2:1 shrink ratio, it can fit a variety of busbar shapes and power distribution components. The EV orange color aids in easily identifying higher voltage circuits, helping to optimize maintenance and safety checks. Moreover, its robust and lightweight material design helps to achieve the lightweight requirements of electric vehicles without compromising thermal stability, electrical resistivity, and high voltage performance.

MARKETS & APPLICATIONS

- Automotive
- Industrial & Commercial Transportation
- Battery Pack
- Charging Harness
- High Voltage Power Distribution
- Battery Connections

CHEMICAL

- Flame Retardant
- Fluid Resistant

MATERIAL PROPERTIES

- Material: Modified polyolefin and crosslinked by irradiation
- Shrink ratio: 2:1
- Minimum Shrink Temperature: 70°C
- Operating Temperature: -40°C to 125°C
- Full recovery temperature: 90°C
- Voltage system: Rated for 2500V

PRODUCT PERFORMANCE

- HIGH VOLTAGE IDENTIFICATION: Orange color for visual identification of high voltage connections
- ELECTRIC INSULATION: Excellent dielectric strength for electric insulation in high-voltage environments and thinner wall
- FLAME RETARDANT: Does not propagate burning as specified in UL224 standard (testing conducted internally at TE)
- DURABILITY: Durable in high heat environments, helps to protect against premature failure of covered busbar component
- EASE OF USE: Good flexibility enables quicker assembly and use over both simple and intricate shapes

KEY BENEFITS

- Easy identification of higher voltage busbar
- Excellent insulation characteristics
- Does not propagate burning to help maintain vehicle operators' and passengers' safety
- Helps to achieve lightweight requirements
- Helps to deliver optimum thermal stability, electrical resistivity, and high-voltage performance

STANDARDS AND SPECIFICATIONS

- UL224 VW-1 (testing conducted internally at TE)

LEARN MORE

- Landing Page
- Datasheet

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