High Voltage Switch DC Busbar Heat Shrink Tubing

Overview

Bus Bar Heat-Shrink Tubing | McMaster-CarrFind tubing with the right shrink ratio, flexibility, and dielectric strength. Plus, compare materials by chemica.

Key Takeaways

High voltage DC busbar heat shrink tubing provides reliable insulation, flashover protection, and space-saving benefits for copper or aluminum busbars in switchgear applications.Overview

High voltage busbar heat shrink tubing is a thick-wall, heat-shrinkable polymer sleeve designed to insulate DC busbars in switchgear, substations, and other high-voltage electrical systems. When heated, the tubing shrinks snugly over the busbar, ensuring a uniform insulation layer that protects against accidental flashover, partial discharge, and mechanical damage . It is suitable for both circular and rectangular busbars and can be applied in confined or complex spaces where traditional insulation methods may be difficult .

Key Features
• Voltage Ratings: Typically rated for 5 kV to 72 kV, depending on the product and manufacturer .

• Material: Non-halogen, cross-linked polyolefin or similar polymers, offering flame retardancy, solvent resistance, and excellent tracking resistance .

• Shape Compatibility: Works on straight, angled, rectangular, and round busbars, providing flexibility in switchgear design .

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• Installation Methods: Can be applied using hot air, gas torches, or industrial ovens, making it suitable for both field and factory installations .

• Space Efficiency: Enables reduced air spacing between busbars, which is critical in compact switchgear designs .

Advantages

• Enhanced Safety: Prevents accidental bridging and flashover between high-voltage busbars .

• Durability: Provides a mechanically robust and chemically resistant insulation layer, reducing maintenance needs .

• Aesthetic and Uniform Coverage: Shrinks evenly over the busbar, forming a smooth, visually consistent insulation layer .

• Environmental Benefits: Non-halogen materials reduce toxic emissions in case of fire .

Applications

• High-voltage DC switchgear

• Substation busbar insulation

• Confined or complex busbar layouts

• Retrofit or field installations where epoxy coating is impractical

Considerations

• Ensure the correct tubing diameter and wall thickness to meet voltage and clearance requirements.

• Proper heating is essential to achieve uniform shrinkage and minimum wall thickness.

• While heat shrink tubing is effective, epoxy powder coating may be preferred for extremely high-voltage or complex-shaped busbars due to superior dielectric and mechanical properties . High voltage DC busbar heat shrink tubing is a cost-effective, reliable, and versatile insulation solution for modern switchgear, offering both safety and space-saving advantages while maintaining compliance with industry standards such as ANSI/IEEE C37.20 .

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Article Content

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Explore copper busbar insulation methods, including heat-shrink tubing and epoxy coating.

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Our Raychem Busbar Insulation Tubing is a thick-wall heat-shrinkable tubing for

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Heat-shrink busbar insulation sleeves for electrical distribution equipment. Submit conductor size, voltage

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Dual wall heat shrink with good resistance to bending and scratching, high insulation strength and resistance to electric carbon mark.

Electriduct 8.25" Bus Bar Heat Shrink Tubing 2:1 Shrinkable ...

Pre-shrink diameter of 8-1/4 Inch made from a rubber and plastic blend polymer. Commonly used for bus bar

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Heat Shrink Tubing & Insulation Sleeving — Storm Power

Explore Heat shrink tubing for bus bars from 3M, Raychem, and Delfingen. Available in 600V–36kV ratings

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Tubing, Bus Bar Heat Shrink Tubing Heat Shrink Tubing are hollow tubes of woven material with both ends open. These tubes

Raysulate

Raysulate products come in the form of Heat Shrink Tubes, Tapes, Sheets and pre-formed shapes to enhance insulation of live

SKBT-HV High Voltage 35KV Busbar Insulation Heat

SKBT-HV High Voltage Heat shrink busbar insulation tubing is a kind of continuous tubing made of

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KTG Electronics provides heat shrink busbar tubing with size from 20mm to 200mm. It is suitable for busbar insulation in electrical

3M™ Heat Shrink Tubing BBI | 3M United States

3M™ Bus Bar Heat Shrink Tubing BBI is a flame retardant tubing that provides reliable protection and

Correct use method and model selection of high-voltage

Depending on the voltage level, 10KV, 20KV or 35KV can be selected. When using busbar

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10KV heat shrink bus bar tubing BH-BBT-10KV

BH-BBT-10KV 10KV heat shrink bus bar tubing provides high resistance to tracking and arching and used to enhance the insulation

High Voltage Heatshrink Busbar Tubing For Installations Up To 24kV

Heat-shrinkable Busbar Insulation Tubing TE Connectivity''s (TE) Raychem BPTM medium-wall, heat shrink tubing provides

HB1

HB1 - Busbar Insulating Heat Shrink Tubing (Withstand Voltage Up To 3.6kV) is suitable for the application

HV BUSBAR TUBINGS TUBES, HEAT SHRINK HV 11KV 33KV BUSBAR TUBING, HEAT ...

HV heat shrink busbar tubes provide electrical insulation and reduced clearances for high voltage switchgear, busbars and electrical

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This page shows three types of busbar heat shrink tubing for 1kV, 10kV and 35kV applications. This busbar tubing has a perfect

Bus Bar Heat Shrink Tubing | Insulation Protection

Most common application this tubing is used for is bus bar insulation protection against flashovers found in

High Voltage Heat Shrink Busbar Insulation Tubing

35kV high voltage busbar heat shrink tubing is widely used in the insulation protection of high-voltage switchgear busbars, thanks to

Busbar Tubing & Heatshrink | Alcomet

High voltage heat shrink busbar insulation tubings provide flashover protection against accidental bridging

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