

Bus bushings in switchgear



Overview

They are designed to carry high-voltage conductors through the grounded metal partitions of switchgear cabinets, providing both electrical insulation and robust mechanical support for 12kV, 24kV, and 40. We design these epoxy bushings specifically for medium voltage applications, ensuring they isolate conductors—such as quarter-inch thick. XBRELE Wall Bushings (technically defined as Through-Wall Insulators) serve as the vital link in medium voltage distribution systems. Each material has its own set of characteristics, advantages, and disadvantages. Porcelain: Offers good dielectric. Selecting a bushing for today's GIS is no longer a matter of legacy specifications. Numerous window configurations are available to suit most bus sizes.



Article Content

Apr 26, 2026

Is your bushing ready for the switchgear of tomorrow?

Ensure your switchgear is future-ready with bushings built for modern standards, emerging insulation systems, and evolving pressures. Make a strategic choice for reliability and performance.

Jan 31, 2026

ABB Group

Introduction to medium voltage switchgear by ABB, exploring its features, benefits, and applications in enhancing industrial digital technologies.

Dec 20, 2025

THROUGH WALL BUSHINGS

We design these epoxy bushings specifically for medium voltage applications, ensuring they isolate conductors—such as quarter-inch thick copper or aluminum

Aug 23, 2025

Wall Bushings (12kV-40.5kV Epoxy) | Switchgear

Our Through-Wall Bushings are engineered to withstand extreme electrical stress and mechanical loads, providing reliable isolation for 12kV (15kV Class) to 40.5kV

Jan 17, 2026

Busbar Design Standards for MV Switchgear

The design standards for MV switchgear busbars are based on a comprehensive, multi-dimensional system, primarily

Aug 18, 2025

Guide to Substation Bushings | Maddox Transformer

Guide to Substation Bushings What bushing layout do you need for your substation transformer? The layout will depend on the bushing location,

Nov 28, 2025

Medium voltage bushing

Our commonly used 24/40.5kV switchgear contact boxes and through-wall bushings basically use internal and external shielding forms, i.e. capacitive voltage divider

Aug 08, 2025

What is the function of the busbar in a switchgear, and

The role of busbars in switchgear□ Busbars are conductors in switchgear that collect, distribute, and transmit electrical energy. They connect the power source

Mar 04, 2026

Thru Wall Window Bushings | The H-J Family of

Thru Wall Window Bushings Wall Bushings are designed for use as bus entrance and cell transition insulation in switchgear applications. Numerous window

Apr 06, 2026

Switchgear/Busduct Industry, gala thermo

Switchgear/Busduct Industry Gala specialises in providing the design and manufacturing of Products & Solutions for Switchgear/Busduct Industries. Gala's insulating portfolio is used to reduce Air

Feb 06, 2026

Wall Bushings (12kV-40.5kV Epoxy) | Switchgear

Manufacturer of High Voltage Wall Bushings (Epoxy Resin). IEC Standard 12kV, 24kV & 40.5kV through-wall insulators for KYN28 switchgear & GIS.

May 19, 2026

HIGH-VOLTAGE BUSHINGS KRUE-EN.cdr

Izolyator high-voltage bushings are installed both on new transformers and switchgear and as re-placement to spent bushings of obsolete design. For that reason, equivalence of the submerged

Jan 06, 2026

Electrical Bushing Types and Their Applications

Electrical bushings are essential components in power transmission and distribution systems, designed to allow conductors to pass safely through grounded barriers

Aug 03, 2025

Bushings

Our bushings for electrical transmission offer AC and DC solutions with high-value customer benefits: longer lifetime and higher reliability, increased safety, no

Feb 14, 2026

Switchgear Bushings

What are switchgear bushings? Switchgear bushings are electrical insulating components that provide a high-voltage electrical connection between switchgear equipment, such as circuit breakers or

Aug 22, 2025

High-voltage bushings

Reliability has always been one of the core demands of the energy market. One such example of reliability can be seen in the exceptional lifetime of power transformers, which often function for 50

Sep 26, 2025

Electrical Bushings Explained

Learn about Electrical Bushings! How they work, their components, designs, advantages, disadvantages and applications.

Feb 17, 2026

Switchgear Connecting Technologies

Switchgear Connecting Technologies This document has been written by Cable Accessories manufacturers to describe the technologies suitable to connect Switchgears to the electrical

Apr 25, 2026

Electrical Bushings for Transformers, Switchgear, and

Polycast's epoxy bushings ensure insulation and reliable performance for transformers and switchgear. Low and medium voltage options available.

Mar 06, 2026

Selecting MV Bushings & Cable Connectors For Use With Schneider ...

Switchgear Bushings & Cable Connectors The following information has been provided to enable to correct selection and specification of MV Bushings and Separable Connectors used to

Jul 17, 2025

Understanding High Voltage Bushings: Design and Function in ...

High voltage bushings are essential components in transformers and switchgear, providing electrical insulation and maintaining safety in high voltage applications. This

Sep 22, 2025

Thru Wall Window Bushings | The H-J Family of

Wall Bushings are designed for use as bus entrance and cell transition insulation in switchgear applications. Numerous window configurations are available to suit

Feb 09, 2026

PowlSmart Product Data Sheet

It is not possible to test every configuration of bus used in switchgear, so every manufacturer has a working guide of dimensions to be used for configurations that aren't tested. Remember that these

Jul 26, 2025

THROUGH WALL BUSHINGS

Through Wall Bushings: Safely transport medium voltage bus bars through panel walls preventing unintentional current flow in switchgear

May 06, 2026

Comparison of switchgear bushing materials

Epoxy, glass polyester (GPO), and porcelain are all materials commonly used for manufacturing bushings in switchgear applications. Each material has its own set of characteristics, advantages,

Dec 02, 2025

The Role Of Epoxy Resin Bushing In Switchgear Insulation

Electrical Structure Layout: In conjunction with other insulating components, epoxy resin bushings form multiple layers of insulation paths inside the switchgear, isolating the electric field

Contact Us

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