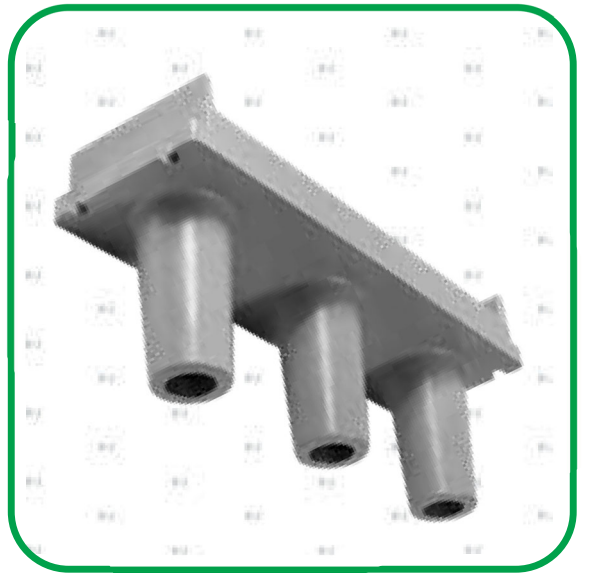
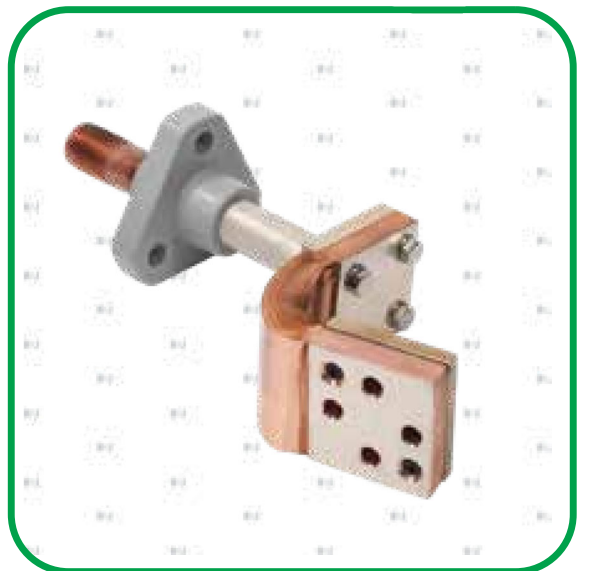


BUSHINGS & CONNECTION SOLUTIONS









BUSHINGS

SOLID/BULK BUSHINGS

A bulk or solid type bushing consists of a central conducting rod available in copper or aluminum, which is encased by an insulator. The surrounding insulator can be manufactured from porcelain, epoxy or thermoplastic materials. The general voltage and current ranges are:



LOW VOLTAGE BUSHINGS UP TO 5kV CLASS

This product line features a wide variety of bushings designed for use on the low-voltage side up to 5kV class in liquid-filled transformer applications.

PORCELAIN & THERMOPLASTIC LV BUSHINGS

The H-J Family of Companies offers voltage classes from 1.2 kV to 5 kV, with basic insulation levels from 30 kV BIL to 75 kV BIL and current ratings from 110 A to 7,500 A. Based on the application, insulator materials are available in epoxy, porcelain, and thermoplastics. Operating temperatures range from -50°C to 150 °C. Internally (threaded shank) or externally clamped designs are available, depending on the application. A wide variety of internal and external terminal connectors like studs with nuts & washers, eyebolts, double eyebolts, spades from 1 to 24 holes and more. Plating is available in tin, silver and nickel, among others. The terminal connectors can be adapted to suit customer requirements for easy installation in existing equipment. Conductor materials are available in copper and aluminum. Just as with our standard Low-voltage Bushings, our metric versions come in similar options.



EPOXY LV BUSHINGS

This product line is designed for use as secondary bushings in liquid-filled transformer applications. Conductor materials are available in copper and aluminum. For the ones constructed in copper, the bushings are constructed of C110 electrolytic grade copper with silver brazed connections for maximum conductivity.



THERMOPLASTIC LV BUSHINGS

Bushings used in pad mounted transformers with typical application being a one-hole spade with 5/8" or 1" threaded stud.

BUSHINGS

SOLID/BULK BUSHINGS

HIGH VOLTAGE BUSHINGS UP TO 34.5 KV CLASS

High Voltage bushing assemblies are offered from 8.7 kV to 30/34 kV and from 75 kV BIL to 200 kV BIL.

These bushings are provided with a clamp or a spring grip nut for internal mounting. Different types of terminals can be requested such as eyebolts or spades.



POWER CLASS BUSHINGS / PORCELAIN

Power class bushings are offered from 8.7 kV to 46kV and from 95kV BIL to 250 kV BIL. These bushings have an integral flange that is used for mounting to the transformer.



APPARATUS BUSHINGS / EPOXY

This series is made for use in both liquid-filled transformer and switch-gear applications in ambient temperatures ranging from -40°C to 105°C and voltage classes from 5 kV to 46 kV. Constructed of C110 electrolytic grade copper for maximum conductivity. Insulation is cycloaliphatic cast epoxy, rated for enclosed or outdoor applications. The capabilities for customizations in this product line are vast, so please contact our sales representatives.



AIR TO AIR BUSHINGS

Our Air to Air bushings are offered from 15 kV to 38 kV and from 110/125 kV BIL to 250 kV BIL. These are provided with a clamp for external mounting and a gasket. These bushings have top self-cleaning sheds or skirts, which are designed for outdoor applications. The internal shanks of the bushings are designed with a shed profile in order to maximize creep distances. They will have a semi-conductive glazing where higher voltage ratings apply. A solid copper conductor is mounted through the center of the bushing and sized depending on the current rating required. The conductor is held in place by aluminum end caps at the top and bottom. Each conductor is provided with standard threads at the top and with a 2-hole flattened spade at the bottom. Other conductor options are also available.

