

Non-Segregated and Segregated Phase Bus Systems

Engineered for diverse applications in any environment



Designed for efficient, long-term power connections

Avail Medium Voltage Bus Systems designs have been engineered to provide optimum performance at the lowest total installed cost. With over 50 years of industry experience, Avail utilizes the latest materials and manufacturing techniques. Avail's segregated and non-segregated phase bus systems provide a long lasting and reliable system unmatched in the industry.

Non-Segregated Phase Bus Systems

Custom bus duct solutions

Developed for the most demanding industrial and power generation environments, Avail non-segregated phase bus represents an innovative design that provides effective system performance that's cost-effective, low maintenance and ensures greater reliability than power cables provide.

Our single-bar design means lower installation costs, less hardware at splice connections, and reduced install time. A 3-phase, 4-wire system (full and half neutrals) and 2-pole DC bus provides added efficiency in a number of applications— utility plants, petroleum plants, chemical plants, and marine environments.

Non-Segregated Bus Applications

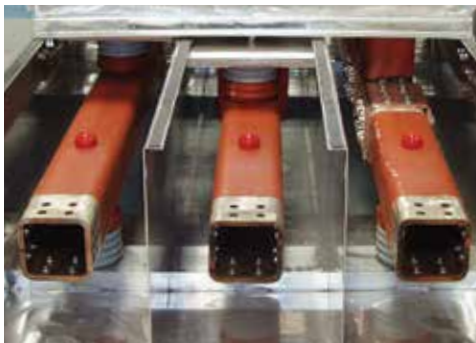
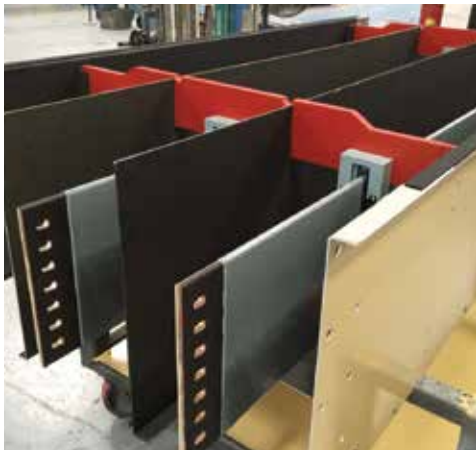
- Transformers to switchgear
- Switchgear to switchgear
- Motor control centers
- AC and DC excitation
- Generator bus

Engineered for multiple environments

Avail non-segregated bus systems are available from 1200A through 5000A continuous current, and from 1058kV to 38kV nominal voltage class, and are perfect for both indoor and outdoor locations. Non-segregated systems are available with either copper or aluminum painted or epoxy-coated conductors, and are mounted on custom-molded, fiberglass-reinforced polyester support blocks or post insulators for maximum performance and safety.



Avail represents a long history of developing cost-efficient, turnkey electrical bus systems to meet exacting requirements.



Segregated Phase Bus Systems

The ideal bus solution for rugged applications

Avail's segregated phase bus systems are built to deliver decades of reliable service in some of the most hostile environments. Avail segregated bus represents an innovative design that provides consistent performance and low maintenance.

With voltages ranging from 600 volts to 38kV and ampere ratings up to 8,000 amps, this design utilizes single-phase conductors in a common enclosure with metal barriers between phases.

Segregated Bus Applications

- Smaller generator lead-in power plants
- Hydro plants
- Metal enclosed substations connecting to switchgear
- Transmission distribution substations

Common Attributes

Standard features for both segregated and non-segregated phase bus

- Rugged design for long-term reliable operation
- Silver-plated contact surfaces for maximum conductivity
- Fluidized bed epoxy insulation
- Bus joints insulated with flame-retardant PVC boot
- UL listed (600V through 15kV)
- ISO 9001 certified
- Meets or exceeds IEEE, IEC and CSA standards, including ANSI C37.23 for safety and performance

Customized Engineering

- Copper or aluminum bus bar
- Aluminum or stainless steel housing
- Available bushing box terminations
- Cable tap box
- Temperature maximum designed to customer needs
- Seismic certifications available
- Customized condensation control

Supporting Services

- Turnkey installation available
- Complete on-site service and parts
- Preventive maintenance programs



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