

ROLINX® Laminated & Integrated Busbar Solutions

ROLINX®
MADE FOR POWER

General Overview



ROLINX Performance laminated busbars offer all material, lamination and plating configurations with optimized inductance and design for controlling of partial discharge. Ideal for medium and high voltage applications.



ROLINX Easy laminated busbars eliminate the outer insulation. They offer an economical and 100% electrically tested alternative to in-house stacked busbars, streamlining your supply chain while improving reliability. Ideal for low and medium voltage applications.



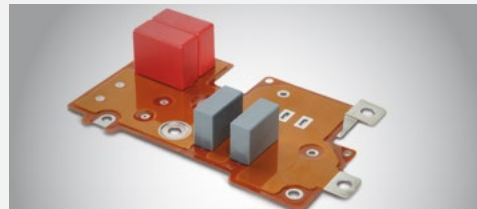
ROLINX Thermal busbars are based on the ROLINX performance busbars technology with an increased working temperature up to 130° C.



ROLINX CapLink busbars integrate capacitors on laminated busbars to offer a low inductance DC link solution.



ROLINX Hybrid busbars are a one piece solution that combines power and signal lines. These busbars are for low voltage applications such as battery cell connections in electric vehicles.



ROLINX PowerCircuit busbars are designed to fill the gap between traditional PCBs and standard laminated busbars. They offer high power density in a 3D design.



ROLINX Flex flexible busbars with pure copper within a protective PVC insulation offers flexibility for customized solutions.



ROLINX Compact epoxy powder coated busbars replace cables in compact designs. They offer a tight fitting solution when limited space is available.

Connection Techniques

Busbar to Component Connection

The component connection techniques solve various issues: mechanical stress due to thermal expansion, tolerance compensation flexibility, ease of installation, low contact resistance, etc.

Capacitors to Busbar

Integration of capacitors using soldering process to achieve the lowest inductance of the total DC link system.



Busbar to Cable Connection

A laminated busbar equipped with connectors for cabling provides an 'all in one' solution for a flawless connection and easy installation.



Busbar to Busbar Connection

From a conventional connection solution (bolted) to more advanced techniques that address issues of flexibility, ease of installation and replacement and low contact resistance.



Typical Characteristics

Voltage	12 KV DC
Power	up to several MW
Ambient temperature range	-50°C / Standard +105°C Extended +130°C
Relative humidity	55°C / 95% RH
Cooling system	Natural convection
Conductor material	Copper, Aluminium
Insulation material	PET, PI, FR4, DM1, Epoxy, others on request
Plating	Sn, Ni, Ag, Others
Product life span	Standard 25 years
Production test	Partial discharge, high voltage, dimensional

Standards and Certifications

- // ISO 9001, ISO 14001
- // IATF 16949
- // IRIS
- // UL 746C (incl. UL 94) US & CA
- // NF F-16-101, NF F16-102
- // EN 50124-1, EN 50125-1,
EN 61287-1, EN 61373,
EN 45545-1

Typical Applications

- // Traction and auxiliary converters
- // Wind and solar power inverters
- // Industrial power converters, VFD
- // Powertrain inverters for electrical vehicles
- // Battery cell and pack interconnections
- // Communication infrastructure
- // Energy storage systems
- // Uninterruptable Power Supply (UPS)

Rogers offers 'ready to use & install' products by mounting the cables or components in-house. This reduces assembly time and simplifies your supply chain.

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