

# ROLINX® Laminated & Integrated Busbar Solutions

General Overview

**ROLINX®**  
MADE FOR POWER



**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.



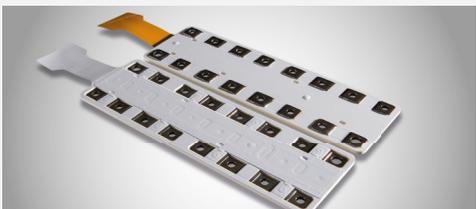
**ROLINX Easy** laminated busbars eliminate the outer insulation. They utilize a closed mold technology which offers high short circuit resistance, optimized inductivity and high currents above 1000A. Ideal for low and medium voltage applications.



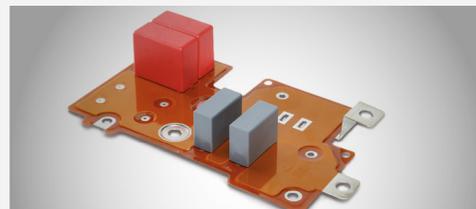
**ROLINX Thermal** busbars are based on the ROLINX performance busbars technology with an increased working temperature up to 130°C.



**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

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

## Standards and Certifications

- // IATF 16949:2016
- // 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
- // UPS, VFD
- // Powertrain inverters for electrical vehicles
- // Battery cell and pack interconnections
- // Communication infrastructure

**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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