Discover the future of automotive
ROLINX® e-Mobility solutions for exceptional electrical performance
What are ROLINX® solutions?

Best-in-class support
- Design engineering support from concept to production
- Responsive and reliable commercial support from quoting through after sales support

Manufacturing technology leadership
- More than 40 years of experience in busbar manufacturing
- Highly automated from end to end
- Leading-edge quality systems

Integrated solutions provider for power distribution
- Full range of laminated and powder coated busbars
- Integrated connectors, cables, circuitry and low inductance DC link capacitors

Powerful products for power electronics

Electrification in the automotive market is increasing rapidly as more and more electrical functionalities are integrated in new cars to increase the comfort and safety for the driver and passenger. More important is the electrification of the powertrain, from mild hybrid to the full electric vehicle.

The trend to more electrification results in the need for more power. Higher current voltage applications are required to drive all new electric functionalities within strict mechanical boundaries. Long term reliability in harsh environmental conditions and vibrations resistance are essential for under-the-hood applications.
ROLINX Laminated Busbar Solutions
Designed for low, medium and high voltage applications offering high heat dissipation, exceptionalradiation and high thermal conductivity.

ROLINX CapLink Solutions
Capacitors integrated on ROLINX Laminated Busbar Solutions offer a low inductance.

Advantages
// Low ESL & ESR
// High ripple current capabilities
// High reliability
// Long useful life

Battery Cell Interconnection
ROLINX Compact
ROLINX PowerCircuit Solutions
ROLINX Housing Solutions

Advantages
// One-piece solution for signal lines and power connection in battery modules
// Reduces installation time
// Eliminates wiring errors
// Streamlines the supply chain
// Suitable for prismatic and cylindrical battery cells

Start-Stop System
ROLINX PowerCircuit Solutions
ROLINX CapLink Solutions

Advantages
// High copper cross section
// High reliability
// Low weight

ROLINX Busbars Engineering Services
ROLINX Busbars engineering services include a range of services to meet critical application needs regardless of size or complexity. Our services include static, heating and simulation services, standard and specific testing capabilities like static self-heating and accelerating aging tests.

Advantages
// Comprehensive evaluation for the optimal busbar solution
// Technical and application engineering assistance
// Minimized design time and cost
// Increased flexibility
// Lower total cost of ownership

ROLINX Hybrid
Designed as a one-piece solution that combines power and signal lines. ROLINX Hybrid laminated busbars are for high current applications in battery cell connection as well as high current power distribution.

Advantages
// One-piece solution for signal and power connection
// Good corrosion resistance
// Reliability under extreme conditions
// Dimensional stability
// Susceptible to high current applications

ROLINX PowerCircuit Solutions
This busbar is designed to fill the gap between traditional PCBs and standard laminated busbars. It offers high power density in a 3D design.

Advantages
// Low inductance
// Good thermal management
// Fit for high volume assembly processes and interconnection techniques
// Compact 3D design
// Wave soldering capability

ROLINX Flex
Flexible busbars with pure copper laminates within protective PVC insulations offer flexibility for customized solutions.

Advantages
// Increased reliability due to the optimized busbar layout
// Reduced busbar architecture complexity
// Minimized design risk and cost
// Increased flexibility
// Lower total cost of ownership

ROLINX Laminated Busbar Solutions
Designed for low, medium and high voltage applications offering high thermal dissipation, exceptional radiation and high thermal conductivity.

Advantages
// One-piece solution for signal and power connection
// Good corrosion resistance
// Reliability under extreme conditions
// Dimensional stability
// Susceptible to high current applications

ROLINX Compact
Epoxy powder coated busbars for compact designs to replace cables. It offers tight fitting solutions when limited space is available.

Advantages
// Flexible configuration with or without rigid part
// Easy and quick bending
// Ideal for parts with vibrations and/or thermal expansion
// Space saving in compact designs
// High current carrying capacity
// Ideal for high volume production

ROLINX Housing Solutions
ROLINX injection molding solutions in combination with busbars offers great flexibility for customized solutions.

Advantages
// Integration of connectors or structural functions
// Reduced weight
// Space savings in compact designs – no spacers required
// Enhanced design flexibility
// Low weight

DC/DC Converters
ROLINX Laminated Busbar Solutions
ROLINX Housing Solutions
ROLINX PowerCircuit Solutions
ROLINX Compact

Advantages
// Increased reliability due to the optimized busbar layout
// Reduced busbar architecture complexity
// Minimized design risk and cost
// Increased flexibility
// Lower total cost of ownership

Battery Module and Pack Interconnection
ROLINX Compact
ROLINX PowerCircuit Solutions
ROLINX Laminated Busbar Solutions

Advantages
// Optimized design fit for narrow space connection (compact design)
// High power density capabilities
// High temperature resistance
// Easy to insulate very complex shapes

Allowing your car to go that extra mile by focusing on efficient power distribution and lower energy losses.
Our low inductance laminated busbars solutions are used in a variety of applications

// Traction and auxiliary converters
// Wind and solar power inverters
// Industrial power converters UPS, VFD

Are you looking for additional information on ROLINX products? Visit our Design Support Hub.

The Design Support Hub provides you with detailed information about how to improve power efficiency and heat management. Explore technical papers, data sheets and videos.

www.rogerscorp.com/designhub