

Flexible Busbar

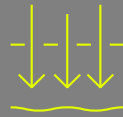
Our flexible busbars enable power connections with excellent vibration and shock absorption characteristics that improve electrical conductivity without compromising mounting strength or robust lifecycle performance.

VERSATILE CONFIGURABILITY



Welding multiple foils to solid mounting areas enables flexible bending to meet a wide range of form factors.

EXCELLENT VIBRATION ABSORPTION



Ideal for applications that experience vibration, thermal expansion, or variations in assembly force tolerance.

HIGH POWER PERFORMANCE



Multiple high conductivity foil lamels accommodate high-power efficiency along with flexible mounting options.

APPLICATIONS

Powertrains, battery connections, charging systems, power steering, braking systems:

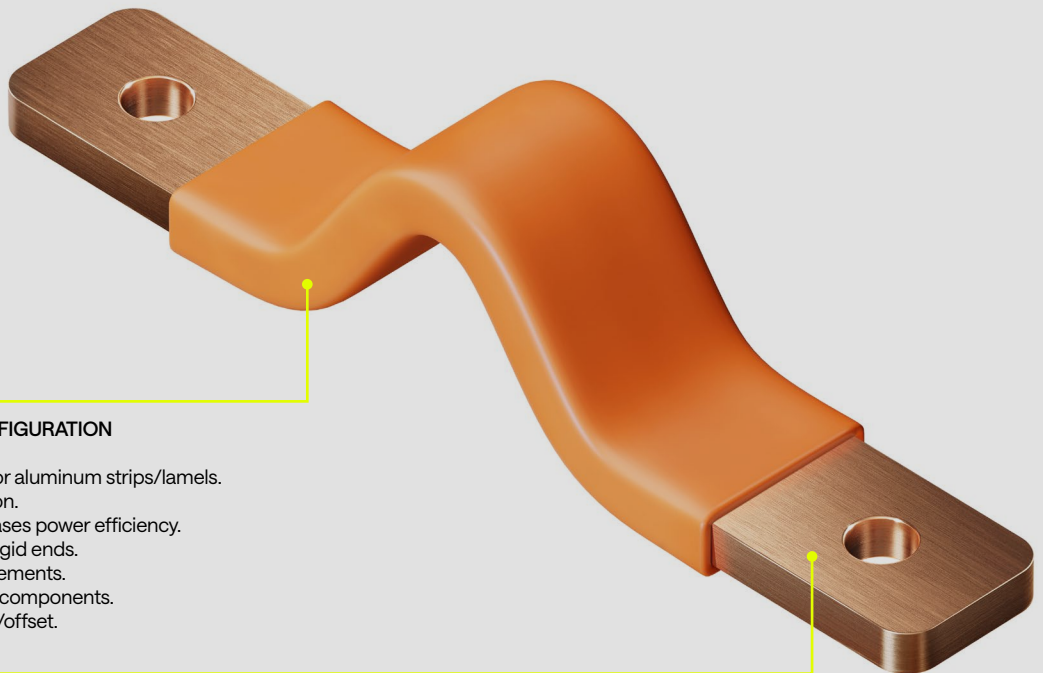
+ Electric vehicles

Powertrains, battery connections, steering and motion control:

+ Commercial transportation

Electrical connections in switching cabinets, power link for generators, transformers:

+ Charging stations for EVs
+ Industrial



HIGH FLEXIBILITY WITH CUSTOM CONFIGURATION

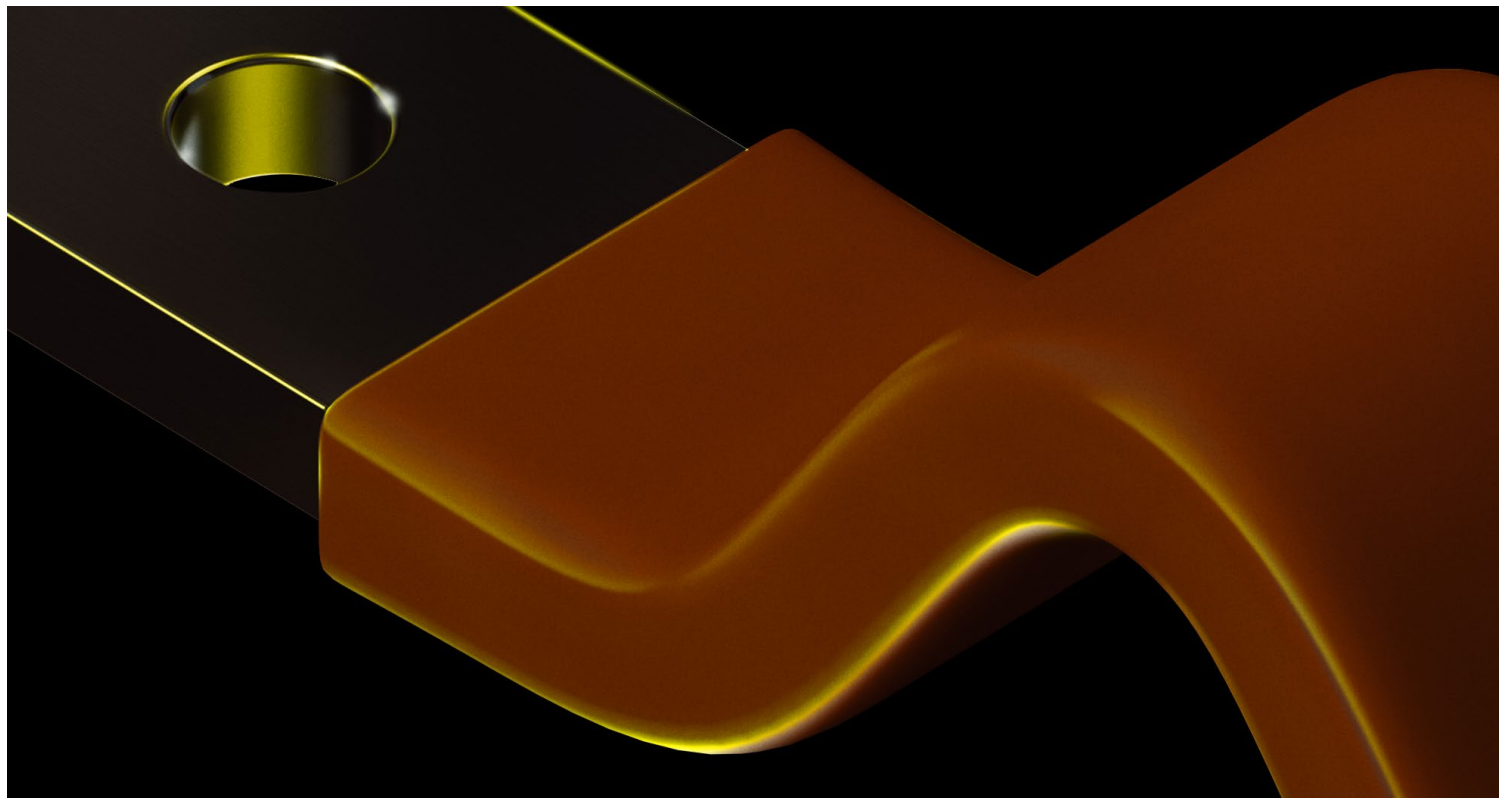
- + Flexible and high conductivity copper or aluminum strips/lamels.
- + Excellent vibration and shock absorption.
- + Improves electrical conductivity; increases power efficiency.
- + Custom configuration with option for rigid ends.
- + Custom length according to the requirements.
- + Supports integration with other power components.
- + High tolerance for assembly mismatch/offset.

STACKED LAMELS

- + Material: Copper or Aluminum foil.
- + Lamel thickness: 0.05 – 0.3mm.
- + Structural strength: 1.5 – 4mm thickness.
- + Molecular diffusion welding bonds multiple sheets to single solid body at mounting areas, while maintaining flexibility in the other areas.
- + Customized for compatibility with specific assembly environments.

ENNOVI™

Flexible Busbar



CONDUCTOR

Material	Layers of Cu/Al
Plating	Sn, Ni, Ag
Thickness (foils)	50 – 300 µm

INSULATION (OPTIONAL)

Material	Heat shrink flame retardant PVC
Color	Orange, Black (standard) - Other colors on request
Operation temperature	-40 °C to +105 °C (optional higher temperatures)
Operating voltage	Typical 1000V AC / 1500V DC (insulation depending)

DIMENSIONS

Length	10 – 50 mm (weld length up to 50 mm)
Width	1 – 10 cm
Total thickness	0.5 – 10 mm