

Busbars

A **busbar** is a solid, typically flat strip or bar made of copper or aluminum that conducts electricity within electrical distribution systems. Busbars are used in switchgear, panel boards, substations, and power distribution units to carry large currents and connect multiple circuits.

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In transformers, electric vehicles, and industrial power systems, busbars serve as the main pathways for distributing high currents efficiently and safely. Unlike magnet wire, which is used for winding coils, busbars are designed for bulk current transfer and interconnection.

Key requirements for busbars insulation:

- Extreme heat resistance
- Mechanical properties: No cracking and whitening after forming
- Smooth surface after forming
- Natural color or orange color, stable with time
- Extrudable, ease of processing