



POWER BUSBAR SOLUTION

TE Connectivity offers Power distribution solutions to address customer system requirements with high expertise, consistent quality and delivery service.

WHAT IS BUSBAR AND WHY USE BUSBAR

- Typically made from of aluminum or copper
- Typically used in electrical power distribution
- Transmit high current power from the source to the load

TE BUSBAR SERVICES

Providing solutions with:

- End-to-end power-transfer solutions
- Design for manufacturability consulting
- Complex assemblies
- On-time delivery performance
- World-class quality

Partnering

- Power system Design for power distribution
- Collaboration to Optimize
 - Power system; Space
 - Min. components; Cost
 - System performance
- System testing including rack, connector, cable and busbar
- Quick prototype sample making

BUSBAR SOLUTION BENEFITS

- Long Life span and stability in power delivery
- Low space requirements as compared to cabling options
- Better heat dissipation
- Ease and speed of installation as many connectors are hot pluggable in tapping points
- Easy installation, less labor required, less cost

TE POWER BUSBAR ADVANTAGES

- **Complete Turn Key:**
Busbar, Connectors and Components full Integration
- **Busbar Development:**
Design, simulation, testing & manufacturing
- **Cost Competitive Solutions:**
Market competitive solutions meeting requirements
- **Regional Capabilities:**
Design Teams and Supply Chain: Asia & North America
- **Quick Response:**
Short lead time for both concept design and sample building

POWER BUSBAR SOLUTIONS

BUSBAR MANUFACTURING CAPABILITIES

- **Copper thickness:** 1mm-20mm;
- **Forming:**
 - CNC cutting, laser cutting
 - CNC bending, punching, machining, die cutting
- **Isolation:** Epoxy coating
- **Plating:** Tin, Nickel, Ag, Au...
- **Welding:** Ultrasonic welding, Laser welding...
- **Lamination**
- **Press riveting**

BUSBAR WITH CABLE(SCREW AND WELDING)

Offering

- Cable screw/welding on busbar
- TE connector and cable solution

Features and Advantages

- High current carrying
- More better floating
- Lower system noise
- Better for test and maintenance

FLEXIBLE BUSBAR: BRAIDED WIRE, MULTIPLE COPPER STACK

Offering

- Round and Flat braided wire
- Insulated and uninsulated versions
- Multiple copper sheet stack version
- Felx/rigid combined solution with welding
- TE connector solutions

Features and Advantages

- High current carrying
- Good flexibility, better floating
- Save space
- Easy to install
- Easy for test and maintenance



PRODUCT TYPES

Rigid Busbar



Capabilities

- Copper thickness: 1mm-20mm;
- Forming: CNC/Laser cutting, Bending, punching, machining
- Isolation: Epoxy coating
- Plating: Tin, Nickel, Ag, Au...
- Welding: Ultrasonic welding, Laser welding

Value add

- TE connector solutions
- Press riveting
- PEM insertion and attachment

Features and Advantages

- High current carrying
- More better floating
- Lower system noise
- Better for test and maintenance

Laminated Busbar



Value add

- TE connector solutions
- Press riveting
- PEM insertion and attachment

Features and Advantages

- Size minimize
- Low resistance, high capacity
- Improved heat dissipation, lower T-rise of system
- Reduce the damage from voltage peak
- Reduce system noise and EMI
- Error proof installation
- Good look

POWER BUSBAR SOLUTIONS

TARGET MARKET/APPLICATION

Data centers

- Rack power distribution
- Shelf DC power transmission

Computers

- PCB to PCB
- Supercomputer
- High-end Servers and AI Servers
- High-end Switch Back plane power distribution

Telecom:

- Cellular base station power distribution;
- Router backplane distribution; internet router;
- Telecommunications board level power distribution

• Transportation

• Energy

• Industrial

te.com

© 2021 TE Connectivity. All Rights Reserved.

TE Connectivity, TE connectivity (logo) and Every Connection Counts are trademarks owned or licensed by TE Connectivity. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

10/21