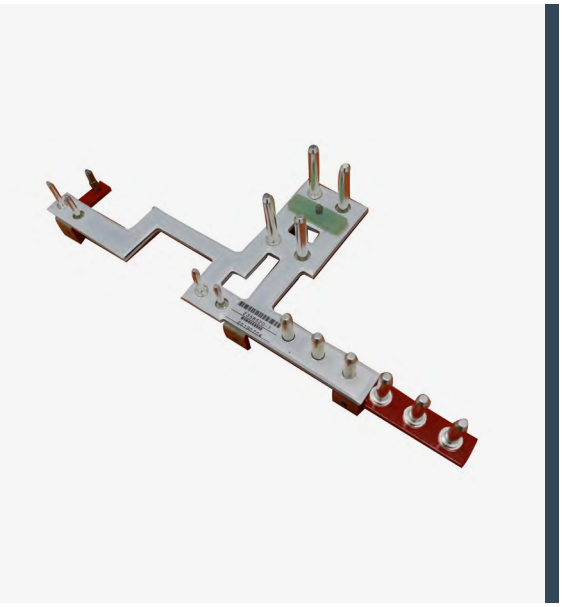

# POWER BUSBAR SOLUTION

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
- Typcially 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

## 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**

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