



RO-LINX® CONNECTION TECHNIQUES

Power Distribution Systems

IT'S ESSENTIAL... ...TO CREATE THE PERFECT LINK

A laminated busbar is by definition a solution that connects components or links sub modules of the converter or drive in an efficient way. It distributes power from one component to another, from the input side to the output side of a power module. We provide reliable solutions for busbar to busbar, busbar to component and busbar to cable connections.

Rogers has an extensive experience in integrating and mounting connection techniques on a laminated busbar. For some techniques in-house capabilities are available, while others are sourced from leading companies in their business. But whatever the source, Rogers will make it fit on the laminated busbar.

Rogers also provides assistance to your engineers in selecting the right connection technique, taking into account different parameters, such as current capacity, flexibility, etc. By leveraging internal know-how and production capabilities, you can be ensured the best-fit solution with high reliability, long life time and the best electrical performance.

As the range of connection techniques is not exhaustive, we explore new techniques for specific designs that fit your needs or requirements. These technologies are extensively tested internally in terms of processibility, repeatability and durability.



ADVANTAGES

Key benefits in the range of connection techniques, depending on your requirements:

- ▶ High current capacity
- ▶ Reduce leakage inductance
- ▶ Minimal contact resistance
- ▶ Minimal power loss
- ▶ Resistance to vibration
- ▶ Ease of installation and replacement
- ▶ Long product life
- ▶ Corrosion resistance
- ▶ Flexibility
- ▶ Waterproof solution for cable connections

Flexible connections have several advantages:

- ▶ When requiring flexibility in different axes (x-y-z axes) or for different angles
- ▶ For tolerance compensation
- ▶ To cope with thermal expansion
- ▶ For ease of installation or mounting
- ▶ For space savings



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Rogers' connection techniques are categorized by their most common application, although they may be used for several other applications as well:

Busbar to Component connection

The component connection techniques are suited to address different issues; mechanical stress on the contacts of components due to thermal expansion, component tolerance compensation, flexibility, ease of installation, low contact resistance etc.



Busbar to Busbar connection

From a conventional connection solution (bolted) to more advanced techniques that address issues of flexibility, ease of installation and replacement, low contact resistance.

Rogers also offers the possibility of mounting the cables or components directly to the busbar in-house, delivering a 'ready to use and install' product. Other advantages are a simplified supply chain by the decrease of separate parts that require handling and a decreased assembling time.

Busbar to Cable connection

A laminated busbar equipped with connectors for cabling provides an 'all in one' solution for a flawless connection and easy installation.



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