

# RIGHT ANGLE BarKlip™ CONNECTOR SYSTEM

## OVERVIEW

The Right Angle BarKlip™ is the first of the BarKlip™ products to be released to the market by FCI. BarKlip™ busbar connectors offer some key improvements to other busbar connectors. A key difference is the 10 independent conducting beams which all make contact with the mating busbar. These power beams provide lower resistance by maintaining contact with the mating busbar through common mis-aligned conditions. The BarKlip™ contact also includes a stainless-steel helper spring to ensure proper mating force and contact resistance is maintained during the life of the connection. Finally, the entire contact is plated with FCI's proprietary silver-based plating to further reduce the resistance and eliminate fretting corrosion found in tin-plated connectors.



## FEATURES & BENEFITS

- Power contact capable of carrying 150Amps/contact (30°C T-rise in still air)
- 10 independent points of contact for low resistance (0.2mΩ) and high reliability
- Silver plated contacts – to deliver the lower resistance without the high cost of gold
- Housing material is halogen-free for next generation environmental requirements
- Large operating temperature range (-40°C – 125°C) for extreme environments
- Solder tails or screw-mount tabs are available for termination flexibility

## TARGET MARKETS / APPLICATIONS

- AC/DC pluggable power supplies in data, telecom & datacom/networking equipment
- Rack mounted power distribution applications involving busbars to busbar connection
- Industrial equipment requiring high current density connections between busbars and pcbs
- Hyperscale Computing architectures using busbars for power distribution



## TECHNICAL INFORMATION

### MATERIALS

- Housing
  - High-Temperature thermoplastic (UL 94 V-0, halogen-free), black
- Power contact base metal
  - High-conductivity copper alloy
- Contact Finish
  - Separable interface: AGT™ (silver) plating, over nickel
  - Board connector solder tail area: Matte tin over nickel

### ELECTRICAL PERFORMANCE

- Current Rating: Up to 150A (30°C T-rise in still air)
- Operating Voltage: 48V
- Dielectric Withstanding Voltage: 1000V
- Insulation Resistance: 5000MΩ
- Contact Resistance: 0.2mΩ max.

### ENVIRONMENTAL

- Operating Temperature -40°C to 105°C
- RoHS Information: this product is compatible according to the European Union Directive 2002/95/IEC

### PART NUMBERS

Description	Part Number
RA BarKlip™ with solder tabs	10125600-*
RA BarKlip™ with screw mount	10125595-*

### MECHANICAL PERFORMANCE

- Contact Wipe Distance: 3.5mm
- Durability: 50 mating cycles

### SPECIFICATIONS

- Product specification: GS-12-1179

### APPROVALS AND CERTIFICATIONS

- UL – in process
- CSA – in process
- TUV – in process

### PACKAGING

- Trays