

# BarKlip® BK300 Connector

## LOW RESISTANCE–HIGH POWER BUSBAR CONNECTOR

The BarKlip® BK300 connector features 14 independent conducting beams that maintain contact with the mating busbar. These power beams provide lower overall resistance by maintaining contact with the mating busbar through common misaligned conditions. BK300's contacts are plated with Amphenol ICC's proprietary silver-based AGT® plating technology to further reduce contact resistance and eliminate fretting corrosion commonly found in tin-plated connectors. BarKlip® BK300 is ideal for high power applications in hyperscale computing architectures using busbars for power distribution.

- Up to 350A at 30°C temperature rise in still air
- 14 independent points of contact for low resistance and high reliability
- AGT® plated contacts which eliminates fretting corrosion
- Handles up to ±0.55mm of busbar misalignment
- Ideal for hyperscale computing architectures



### TARGET MARKETS



### FEATURES

- 14 independent points of contact
- AGT® plating technology
- Pass-through design
- Mates with 2.00mm, 3.00mm, 4.00mm thick busbars
- Low halogen housing
- High temperature thermoplastic housing

### BENEFITS

- Offers low resistance and high reliability
- Eliminates fretting corrosion
- Simplifies mating to the busbar
- Suitable for busbar Power Distribution Systems (PDUs) with different thicknesses
- Meets JEDEC JS709 Electronic Industry Standard
- Wide operating temperature from -40°C to +105°C

## TECHNICAL INFORMATION

### MATERIAL

- Housing: High temperature thermoplastic, UL 94 V-0, Black
- Terminal: High conductivity copper alloy
- Contact Area: AGT® plating over nickel

### MECHANICAL PERFORMANCE

- Durability: 50 mating cycles
- Mating Force: 40N max.
- Unmating Force: 6N max.

### ELECTRICAL PERFORMANCE

- Current Rating:
  - Up to 350A (30°C temperature rise in still air)
- Operating Voltage:
  - 600V (one-pole application, depending on MCD between adjacent BarKlip®)
  - 24V (two-pole application with laminated busbar)
- Dielectric Withstanding Voltage: 1000V
- Insulation Resistance: 5000M
- Contact Resistance: 0.20m max.

### ENVIRONMENTAL

- Operating Temperature: -40°C to +105°C
- RoHS: this product is compatible according to the European Union Directive 2011/65/EU

### SPECIFICATIONS

- Product Specification: GS-12-1319
- Application Specification: GS-20-0446

### APPROVALS AND CERTIFICATIONS

- UL, CSA, TUV pending

### PACKAGING

- Trays

### TARGET MARKETS/APPLICATIONS



AC/DC Pluggable power supplies  
Networking equipment  
Switches



Server  
Storage equipment



Hyperscale computing architectures  
using busbars for power distribution

## PART NUMBERS

Description	Part Numbers
BarKlip® BK300 for use with 2.00mm busbar	10129416-001LF
BarKlip® BK300 for use with 3.00mm busbar	10129416-002LF
BarKlip® BK300 for use with 4.00mm busbar	10129416-003LF

# Mouser Electronics

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