

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