

BarKlip® BK100 I/O

DIRECT PLUGGABLE CLIP THAT CONNECTS TO BUSBARS

Amphenol ICC's BarKlip® BK100 I/O provides a convenient method of distributing up to 100A between busbars, cables and circuit boards. It features 12 fully independent cantilevered beams, providing a true compliant spring to adjust for variations in busbar alignment and surface finish. The ultrasonically welded connection between the wire and contact increases the efficiency and reliability of current transition.

The cable connects with a system rack bar and a 6.00mm thick copper bar, to achieve a direct pluggable connection to an un-insulated busbar. This connection generates very low energy loss, with a maximum resistance of only 0.2mΩ per port.

- Floating panel mount for blind-mate applications
- Spring-like design adjusts to busbar variations
- Ideal for 1U racks



TARGET MARKETS



FEATURES

- Contacts with high conductivity copper alloy, 12 independent conducting beams and silver plating
- Ultrasonically welded connection between wire and contact
- High temperature housing
- Low-halogen housing
- 10AWG to 4AWG
- Terminates up to four 8AWG wires

BENEFITS

- Carries up to 100A/contact (30°C T-rise in still air) and provide low contact resistance
- Low voltage drop and high reliability
- Wide operating temperature range of -40°C to 125°C
- Meets JEDEC JS709 Electronic Industry Standard
- Supports different wire combinations with equal cross-section area for a wide range of power distribution requirements

TECHNICAL INFORMATION

MATERIAL

- Contacts: High Performance Copper Alloy
- Contact finish: AGT® Silver Plating over Nickel
- Housing: High-Temperature Thermoplastic, UL 94 V-0, halogen free, Black
- Cable: 10AWG – 4AWG or equal cross section area wire

MECHANICAL PERFORMANCE

- Mating busbar's thickness: $3.0 \pm 0.1 \text{mm}$
- Pitch of two parallel busbars: $17 \pm 0.25 \text{mm}$
- Durability: 50 mating cycles

ELECTRICAL PERFORMANCE

- Current Rating: up to 100A/contact (30°C T-rise in still air)
- Operating Voltage: 48V
- Dielectric Withstanding Voltage: 1000V
- Insulation Resistance: $5000 \text{M}\Omega$
- Contact Resistance: $0.2 \text{m}\Omega$ max.

ENVIRONMENTAL

- Operating Temperature: -40°C to 125°C (without wire consideration)
- RoHS Information: This product is compatible according to the European Union Directive 2011/65/EU

SPECIFICATIONS

- Product Specification: GS-12-1410

APPROVALS AND CERTIFICATIONS

- UL and CSA are in process

PACKAGING

- Carton

TARGET MARKETS/APPLICATIONS



AC/DC Pluggable Power Supplies
Networking Equipment
Switches



Servers
Storage



Hyperscale Computing Architectures