

BarKlip® BK200 IO

OCP-COMPLIANT PLUGGABLE CLIP THAT CONNECTS DIRECTLY TO BUSBARS

Amphenol ICC's OCP compliant BarKlip® BK200 assembly provides a convenient method of distributing up to 200A per contact between busbars, cables and circuit boards. It features 14 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 power distribution.

The cable connects with a system rack bar and a 3.00mm thick copper bar, to achieve a direct pluggable connection to an uninsulated busbar. This connection generates very low energy loss, with a maximum resistance of only 0.20mΩ per port.

- Distributes up to 200A per contact
- Screw mount (OCP-Open Compute Project Compliant)
- Spring-like design adjusts to busbar variations
- Ultra-low end-of-life contact resistance of 0.20mΩ
- Ideal for 1U racks



TARGET MARKETS



FEATURES

- Contacts with high conductivity copper alloy
- 14 independent conducting beams and silver plating
- Ultrasonically welded between wire and contact
- High temperature housing
- Low-halogen housing
- 4AWG to 2AWG with terminations up to four 8AWG wires

BENEFITS

- Carries up to 200A per contact (30°C T-rise in still air)
- 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

- Contact: High performance copper alloy
- Contact Finish: AGT® silver plating over nickel
- Housing: High-temperature thermoplastic, UL 94 V-0, halogen free, black
- Cable: 14AWG – 2AWG or equal cross section area wire

MECHANICAL PERFORMANCE

- Mating busbar's thickness: $3.00 \pm 0.10\text{mm}$
- Pitch of two parallel busbars: $17 \pm 0.25\text{mm}$
- Durability: 50 mating cycles

ELECTRICAL PERFORMANCE

- Current Rating: Up to 200A per contact (30°C T-rise in still air)
- Operating Voltage: 12V
- Dielectric Withstanding Voltage: 1000V
- Insulation Resistance: 5000MΩ
- Contact Resistance: 0.20mΩ max.

ENVIRONMENTAL

- Operating Temperature: -40°C to 125°C (without wire consideration)

SPECIFICATION

- Product Specification: GS-12-1222

APPROVALS AND CERTIFICATIONS

- UL- Approved

PACKAGING

- Carton

TARGET MARKETS/APPLICATIONS



AC/DC pluggable power supplies in Telecom & Datacom Networking Equipment



Hyperscale computing architectures using busbars for power distribution (OCP)

PART NUMBERS

Description	Part Numbers
BarKlip®	10130664-*