Power Solutions

Amphenol

BarKlip® BK1200 HD I/O 10U Cable Connector

HIGH POWER OCP-COMPATIBLE CABLE ASSEMBLY COMPLIANT WITH OPEN COMPUTE POWER DISTRIBUTION ARCHITECTURE

Amphenol's BarKlip® BK1200 HD I/O power cable assemblies feature an OCP-compatible design, compliant with ORv3 power distribution architecture standards. Barklip® BK1200 HD I/O can distribute up to 1250A per contact, load and return, and up to 2500A total. Designed similarly to other ORv3 busbar connectors, BK1200 HD I/O provides best-in-class current carrying capability, featuring silver-plated contacts ensuring low contact resistance, a braided flex cable ensuring space conservation, and secondary chassis grounding contacts providing grounding functionality for improved safety.

BarKlip® BK1200 HD I/O's high current carrying capabilities and customizable design are ideal for data center applications such as power shelves (PSUs), battery backup units (BBUs), server/ storage sleds, and high-density system architecture powering Artificial Intelligence (AI).

- Distributes up to 1250A per contact
- Supports 48V Power Rack Architecture
- Compliant with ORv3 Power Output Connector Specifications
- Braided flex cable provides space conservation
- Ultra-low end-of-life contact resistance of 0.04mΩ max.



TARGET MARKETS

FEATURES

- Contacts with high conductivity copper alloy
- 38 independent conducting beams and silver plating
- Braided flex cable
- Secondary chassis grounding contacts
- Ultrasonically welding between wire and contact
- Floating panel mount design

BENEFITS

- Up to 1250A per contact (60°C/300LFM airflow) load and return, 2500A total
- Ultra-low end-of-life contact resistance of 0.04mΩ
- High current-carrying capabilities while increasing space conservation
- Safely provides supplemental grounding to the rack for system fault protection
- Provides low voltage drop and high reliability
- Supports ±3.25mm float horizontally and vertically

TECHNICAL INFORMATION

MATERIAL

- Power Contacts: High conductivity Copper Alloy
- Housing: Thermoplastic, UL 94V-0, Halogen-free
- Finish: Silver

MECHANICAL PERFORMANCE

- Mating Busbar Thickness: 6.00±0.20mm (see product spec busbar recommendations)
- Mating/Unmating Force: Mating force shall not exceed 120N and unmating shall not be less than 15N
- Durability: 50 mating cycles

ELECTRICAL PERFORMANCE

- Power Contacts:
  - 700A Power / Return (30°C temperature-rise over ambient, still air)
  - 1000A Power / Return (30°C temperature-rise over 60°C, 300LFM airflow)
  - 1250A Power / Return (45°C temperature-rise over 60°C, 300LFM airflow)
- Grounding Contacts:
  - 64A total max. for 2-minute duration (32A/Contact)
- Operating Voltage Range:
  - 480VDC (The voltage rating is dependent on the application
- Contact Resistance:
  - Power Contact: End-of-life resistance of 0.04mΩ max.

ENVIRONMENTAL

- Operating Temperature Range: -40°C to +125°C

APPROVALS & CERTIFICATION

- UL 94V-0
- EIA 364

PACKAGING

- Carton

SPECIFICATIONS

- Product Specification: GS-12-2013
- Application Specification: GS-20-0915

TARGET MARKETS/APPLICATIONS



Data Center
Power Supply Units
Battery Backup Units
Storage / Server Solutions
AI & ML

PART NUMBERS

Description	Part Numbers
BarKlip® BK 1200 HD I/O	10177674-*

Find part number details using the search box on www.amphenol-cs.com

PWRBK1200HDIO0525EA4

Disclaimer
Please note that the above information is subject to change without notice.