

Minitek® Pwr PICPWR OCP® Connector System

OCP M-PIC CONNECTOR

Amphenol introduces the new PICPWR OCP® connector system. This new introduction PICPWR 2x6+12SB or 2x3+6SB auxiliary power connector and cable assembly supports the 864W (2x6) / 486W (2x3) power distribution within the HPM and to/from peripheral subsystems to HPM or peripheral subsystems. M-PIC connectors provide the Hybrid(Power/Signal) solution to meet various server system architectures, including Open Compute Project (OCP) Open Rack v3 & Modular Hardware Systems (DC-MHS).

- Rated current up to 12A for 2X6+12SB and 13.5A for 2X3+6SB with all power contacts
- Fully isolated terminals
- Positive locking on housing with low thumb latch operation



FEATURES

- High current alloy material used for contacts
- Fully isolated terminals
- Positive locking on housing with low thumb latch operation
- Fully polarized housings
- High retention force in housing
- UL94V-0 flammability rated Nylon material
- RoHS compliant and lead-free

BENEFITS

- Rated up to 12 A (2x6) / 13.5 A (2x3) per contact with all contacts loaded
- Prevents terminals from potential damage during operation
- Ensures secured mating retention
- Prevents accidental mismating
- Well secured terminals in housing
- High flammability rating
- Meets environmental, health, and safety requirements

► Minitek® Pwr PICPWR OCP® Connector System

TECHNICAL INFORMATION

MATERIAL

- Housing: LCP, Black (UL94V-0)
- Signal Terminal: Copper Alloy with Nickel under plate and Gold plating
- Power Terminal: Copper Alloy with Nickel under plate and Gold plating

MECHANICAL PERFORMANCE- WTB CONNECTORS

- Insertion Force PWR: 5.6N max.
- Insertion Force Side Band: Insertion force: 3.0N max.
- Withdrawal Force PWR:1.5N min.
- Withdrawal Force Side Band: 0.2N max.
- Durability: 30 mating cycles
- Wire Pullout Force: Refer to product specifications

MECHANICAL PERFORMANCE- BTB CONNECTORS

- Insertion Force: 35 N max.
- Withdrawal Force:8N min.
- Durability: 30 mating cycles

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance:
- PWR: 5mΩ max.
- Side Band: 10mΩ max.
- Insulation Resistance: 1000M Ω min.
- Voltage Rating PWR: 600VAC/VDC
- Voltage Rating Signal: 100VAC/VDC
- Current Rating: 12A (2x6) / 13.5A (2x3)
- Dielectric Withstand Voltage: 2200VAC
- Temperature Rise: 30°C max.

PACKAGING

- PCB Header: Tray, Tape & Reel
- Cable Housing: Bulk
- Terminal: Reel

SPECIFICATION

- Amphenol Product Specification: GS-12-1766
- Amphenol Application Specification: GS-20-0807
- Amphenol Packaging Specification: GS-14-3016
- Product Drawing: Please refer to the below table

ENVIRONMENTAL

- Operating Temperature Range: -40°C to +105°C
- *Includes 30°C terminal temperature rise at rated current

TARGET MARKETS/APPLICATIONS



AI and Cloud Gaming Consoles Graphic Interface Networking



Computing System Server and storage

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PART NUMBERS

Туре	Description	Product Series	Drawing Number
Dual Row Board Headers	PICPWR OCP® Right Angle header	10167519	10167519
	PICPWR OCP® Vertical Header	10167520	10167520
Dual Row Board Receptacle	PICPWR OCP® Right Angle Board Receptacle with Latch	10171570	10171570
	PICPWR OCP® Right Angle Board Receptacle With out Latch	10169259	10169259
Dual Row cable housings	Receptacle Housing	10167523	10167523
Terminals	Receptacle Terminal(Pwr)-16AWG	10167522	10167522
	Receptacle Terminal(Pwr)-14AWG	10174057	10174057
	Receptacle Terminal (Signal)	10167521	10167521

Find part number details using the search box on $\underline{www.amphenol-cs.com}$

*Amphenol supports PICPWR OCP® Pigtails and Cable assemblies on request

