

# PWRLOPRO®

## OVERVIEW

PwrLoPro® connectors are a family of board-to-board power connectors designed to deliver more current with lower profile height and less board space.

PwrLoPro® stands 8mm off the edge of the printed circuit board which leaves more space for air flow. The stamped-and-formed power contact can reach the current density of 160A/inch within such compact design. The modular design allows flexible power and signal configurations catering to customer demands as well as other FCI power connectors.

This high-density and low profile connector is developed to meet next generation of 1U application, telecommunications switches, high end servers and hot-pluggable power suppliers.

FCI PwrLoPro® and TE MINI PAK HDL are mutually second to source each other to ensure supply continuity in the world wide market. These two products are completely inter-matable and inter-changeable.



## FEATURES & BENEFITS

- Current rating of 26A for 1 adjacent power contact energized, and 17A for 8 adjacent power contact energized without exceeding a 30°C temperature rise in still air
- 2.75mm between 2 power contacts
- Low profile height (8.0mm) maximizes airflow for effective system cooling
- Highly vented housing design maximizes heat dissipation
- Signal contacts are IMLAs design
- Full modular tooling design to meet customer variable design of power pin and Signal pin requirement; Flexible for power pin and signal pin location
- Blind mating feature and hot pluggable power supplier
- Polarized housing design ensures proper mating
- FMLB contacts, allow up to 3 levels of sequencing
- RoHS and UL compliant

## TARGET MARKETS/APPLICATIONS

- AC/DC pluggable power supplies in data, telecom & datacom/networking equipment
- Servers, switch and storage
- Industrial PCs
- Industrial controls & instrumentation



## TECHNICAL INFORMATION

### MATERIALS

- Contacts: High performance copper alloy
- Plating: 0.76µm (30µin.) precious metal at contact area; 0.5 ~ 1.5µm tin on tail area over nickel plating
- Housings: High temperature thermoplastic, UL94-V0

### ELECTRICAL PERFORMANCE

- Contact resistance (maximum change from initial reading after environmental exposure)
  - Power: <5mΩ max.
  - Signal: 20mΩ max.
- Current rating (with < 30°C temperature rise above ambient):
  - Power: Current rating to 26A for 1 adjacent power contact energized, and 17A for 8 adjacent power contact energized in still air
  - Signal: 3A/contact

### ENVIRONMENTAL PERFORMANCE

- Operating temperature: – 40°C to 125°C
- RoHS information, this product is compatible according to the European Union Directive 2002/95/IEC

## PART NUMBERS

Description	Part Numbers
PWR LO PRO,RAH,25S+10P	Contact FCI for detailed part number information
PWRLOPRO, RAH, 20S+8P	
PWRLOPRO, RAH, 40S+24P	
PWRLOPRO, RAR, 25S+10P	
PWRLOPRO, RAR, 20S+8P	
PWRLOPRO, VTR, 25S+10P	
PWRLOPRO, VTR, 20S+8P	
PWRLOPRO, VTR, 40S+24P	
Any config you desire is available due to full modular design	

### MECHANICAL PERFORMANCE

- Nominal contact wipe distance
  - First mate power: 6.00mm
  - First mate signal: 3.75mm
  - Last mate power: 4.40mm
  - Last mate signal: 2.25mm
- Durability: 250 mating cycles

### SPECIFICATIONS

- Product specification: GS-12-1064
- Application specification: GS-20-0362

### CERTIFICATIONS & APPROVAL

- UL and CSA under progress, expected to complete in June of 2013