

# PWR PROFILE® I/O

## Low profile cable assemblies

### LOW PROFILE, HIGH CURRENT DENSITY CABLE ASSEMBLY

Pwr Profile® I/O address applications requiring additional power density in space constrained, chassis-based equipment platforms. The innovative power contact design has a lower profile for cable-to-board applications.

- Low profile 9.2mm height
- Two power contacts for power and return applications
- Touch-proof housing design
- Polarization to ensure proper mating



### FEATURES

- Current rating up to 20A per contact for two power contacts without exceeding a 30°C temperature rise in still air
- 16AWG to 12AWG
- 9.2mm profile height
- Vented cable housing design
- Touch-proof feature design compliant with IEC60950 standard
- Polarized housing design

### BENEFITS

- High current density in compact design
- Offers design flexibility
- Low profile allows more airflow for system cooling in limited space applications
- Maximizes heat dissipation
- Safety feature
- Ensures proper mating



## TECHNICAL INFORMATION

### MATERIAL

- Housing: High Temperature Thermoplastic, UL94V-0, Black
- Power Contact Base Metal: High Conductivity Copper Alloy
- Contact Finish
  - Separable Interface: 0.76µm performance-based plating over Nickel
- Board Termination Area: Matte Tin over Nickel

### MECHANICAL PERFORMANCE

- Durability: 100 mating cycles

### APPROVALS AND CERTIFICATIONS

- UL pending

### PACKAGING

- Right Angle Header: Tape/Reel or Trays

### ENVIRONMENTAL

- Operating Temperature: -40°C to +105°C
- RoHS: this product is compatible according to the European Union Directive 2011/65/EU

### SPECIFICATIONS

- Product Specification: GS-12-589

### ELECTRICAL PERFORMANCE

- Current Rating: 20A/contact max. at 30° temperature rise in still air
- Operating Voltage: Up to 300V max.
- Dielectric Withstanding Voltage: 500VDC
- Insulation Resistance:
  - Power Contacts: >5000MΩ initially
  - Signal Contacts: >500MΩ initially
- Contact Resistance:
  - Power Contacts: ≤ 4.0mΩ initially as well as after environmental exposure
  - Signal Contacts: ≤ 3.0mΩ initially as well as after environmental exposure

### TARGET MARKETS/APPLICATIONS



Networking  
Power I/O and Distribution in Datacom & Telecom  
Uninterruptible Power Supplies (UPS)



Industrial Controls and Instrumentation  
Battery and Power Strip Monitoring



Medical

## PART NUMBERS

Description	Part Numbers
Right angle board mount plug, 2P plug	10082274-101LF
2P receptacle, 2.5 to 3mm² wire	10130658-xxxxxxxLF

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