

# 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.

- Two power contacts for power and return applications
- Two signal pins for presence detection or power control
- Optional grounding shield on the board connector
- Touch-proof housing design
- Polarization to ensure proper mating



#### TARGET MARKETS



#### FEATURES

- Current rating up to 34A per contact for two power contacts without exceeding a 30°C temperature rise in still air
- 14AWG to 10AWG
- 10.5mm profile height
- Vented cable housing design
- Touch-proof feature design compliant with IEC60950 standard
- Polarized housing design
- Two signal contacts

#### 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
- Supports presence detection or power control



## 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

- Contact Wipe Distance
  - Power Contacts: 4.8mm min.
  - Signal Contacts: 1.5mm min.
- Durability: 200 mating cycles

### APPROVALS AND CERTIFICATIONS

- UL E66906-138\_2\_

### PACKAGING

- Right Angle Header: Tape/Reel or Trays

### ENVIRONMENTAL

- Operating Temperature: -55°C to + 105°C
- RoHS: this product is compatible according to the European Union Directive 2011/65/EU

### SPECIFICATIONS

- Product Specification: GS-12-594
- Application Specification: GS-20-116

## PART NUMBERS

Description	Part Numbers
Right angle board mount plug, 1P+2S+1P plug with ground shield	10089872-101LF
1P+2S+1P receptacle, 2 to 6mm <sup>2</sup> wire	10130701-xxxxxxxLF

### ELECTRICAL PERFORMANCE

- Current Rating: 34A/contact max. at 30°C temperature rise in still air
- Operating Voltage: Up to 300V max.
- Dielectric Withstanding Voltage: 1000V
- Insulation Resistance:
  - Power Contacts: >5000MΩ initially
  - Signal Contacts: >500MΩ initially
- Contact Resistance:
  - Power Contacts: ≤ 2.0mΩ initially as well as after environmental exposure
  - Signal Contacts: ≤ 30mΩ 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

# X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Power to the Board](#) category:*

*Click to view products by [Amphenol](#) manufacturer:*

Other Similar products are found below :

[10131318-08512GRLF](#) [6450171-4](#) [6450552-7](#) [6600323-8](#) [6643429-1](#) [6646040-2](#) [6651939-1](#) [6766604-1](#) [120959-1](#) [1393557-2](#) [1600812-5](#) [1-6450861-2](#) [1645595-1](#) [1743490-1](#) [1744132-7](#) [1761122-1](#) [1766169-1](#) [1766250-1](#) [18362](#) [1892109-1](#) [2226808-1](#) [2-6450860-5](#) [2-6450860-6](#) [2-6450870-0](#) [93003-0502](#) [953552-1](#) [1-6450161-4](#) [1-6450850-6](#) [1645526-2](#) [1-6600130-0](#) [1743419-1](#) [1766150-1](#) [2005243-2](#) [211110-1](#) [2-6600130-2](#) [TE34-12-16P-F0](#) [51700-10201602AALF](#) [5-6450830-6](#) [5646956-4](#) [36662-0005](#) [40585-3000](#) [4-6450830-9](#) [4-6600333-3](#) [51142-0214](#) [031-55414](#) [10125416-4050LF](#) [10134048-911LF](#) [10123159-301LF](#) [10130248-005LF](#) [EBG.0R.804.GLM41](#)