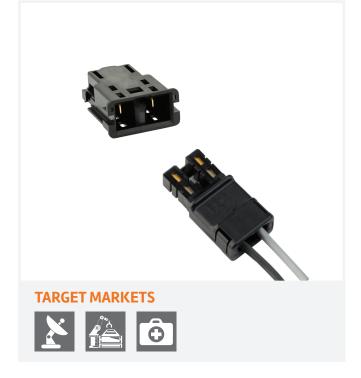
# PWR PROFILE<sup>®</sup> I/O Low profile cable assemblies

## Amphenol FCi

### LOW PROFILE, HIGH CURRENT DENSITY CABLE ASSEMBLY

Pwr Profile<sup>®</sup> 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
- I6AWG 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

## **PART NUMBERS**

Description	Part Numbers
Right angle board mount plug, 2P plug	10082274-101LF
2P receptacle, 2.5 to 3mm <sup>2</sup> wire	10130658-xxxxxxxLF

#### **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:  $\leq$  4.0m $\Omega$  initially as well as after environmental exposure
  - Signal Contacts:  $\leq$  3.0m  $\Omega$  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



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