# Amphenol FCi

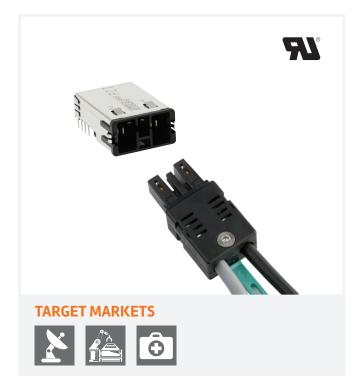
## PWR PROFILE+® I/O

## 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



#### **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

#### **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: >500M $\Omega$  initially
- Contact Resistance:
- Power Contacts:  $\leq$  2.0m $\Omega$  initially as well as after environmental exposure
- Signal Contacts:  $\leq$  30m $\Omega$  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



Medical

### **PART NUMBERS**

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

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