

# PwrBlade+<sup>®</sup> Cable Connectors

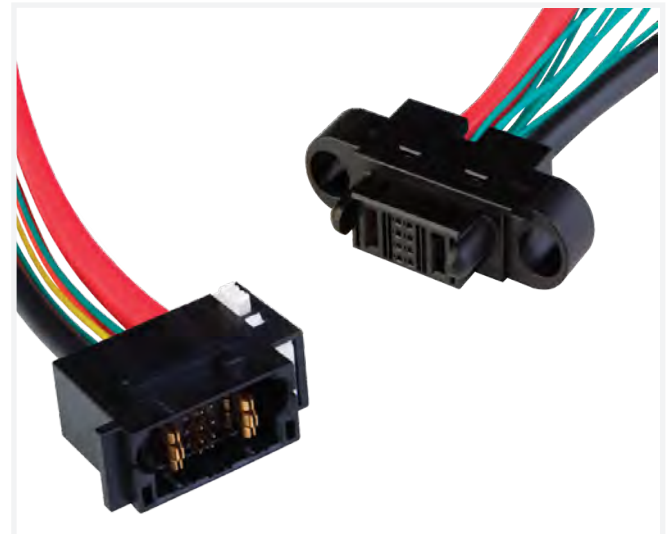
## NEXT GENERATION AC/DC POWER DISTRIBUTION CONNECTOR SYSTEM

PwrBlade+<sup>®</sup> cable connectors offer flexibility to meet a wide variety of customer needs. The connectors come in both cable-to-cable and cable-to-board solutions.

The available wire range is 10AWG–6AWG for high power, 16AWG–12AWG for low power, and 26AWG–22AWG for signal allowing users to select the appropriate connector to meet their application needs. The PwrBlade+<sup>®</sup> cable is designed to operate between –40°C and 125°C.

The PwrBlade+<sup>®</sup> cable provides a flexible, low-cost solution in applications such as telecommunication switches, high-end servers, EV Charging systems, and hot-swappable power supplies.

- Both cable-to-cable and cable-to-board solutions available
- 10AWG–6AWG for high power
- 16AWG–12AWG for lower power
- 26AWG–22AWG for signal
- Operates between –40°C and 125°C



### TARGET MARKETS



### FEATURES

- Three contacts to choose from
  - High power (60A)
  - Low power (25A)
  - Signal (3A)
- Configurable housing design
- Sacrificial tip contacts
- Wide wire range made available:
  - High power: 10AWG–6AWG
  - Low power: 16AWG–12AWG
  - Signal: 26AWG–22AWG

### BENEFITS

- Serves a wide variety of applications
- Supports a wide variety of high power, low power, and signal options in a single housing
- Minimizes effects of un-mating under load
- Allows users to select the best wire size to meet their application needs

## TECHNICAL INFORMATION

### MATERIAL

- Contacts: High-performance Copper Alloy
- Plating: 0.76 µm (30µin.) precious metal at Contact area; 0.5µm ~ 1.5µm Tin on tail area over Nickel plating
- Housings: High temperature thermoplastic, UL 94-V0

### ELECTRICAL PERFORMANCE

Wire Size	High Power contact (single contact rating)	Low Power contact (single contact rating)	High Power contact (4 adjacent energized contacts)	Low Power contact (4 adjacent energized contacts)
6 AWG	75A		60A	
8 AWG	55A		45A	
10 AWG	45A		35A	
12 AWG		30A		25A
14 AWG		25A		20A
16 AWG		18A		16A

### MECHANICAL PERFORMANCE

- Nominal contact wipe distance
  - First Mate Power: 6.15mm
  - Standard Mate Power: 5.19mm
  - Standard Mate Signal: 4.72mm
  - Last Mate Signal: 3.45mm
- Durability: 500 mating cycles

### SPECIFICATIONS

- Product Specification: GS-12-1267
- Application Specification: GS-20-0426

### TARGET MARKETS/APPLICATIONS



AC/DC pluggable power supplies in Telecom & Datacom Networking equipment Switches



Servers Storage



Industrial & Instrumentation



EV Charging



Blind-Mate Floating Panel-To-Panel  
STL Plug-To-PMT Receptable



Blind-Mate  
PMT Receptacle-To-PCB



Free Cable-To-PCB STR  
Receptacle-To-PCB

## PART NUMBERS

Description	Part Numbers
PMT Housing, PwrBlade+™ Cable for 8AWG	10128858-001
STL Housing, PwrBlade+™ Cable for 8AWG	10128882-001
PMT Housing, PwrBlade+™ Cable for 6AWG	10128858-008
Terminal 8AWG	10130389-091082LF
Terminal 6AWG	10130389-092062LF
Terminal 16AWG-12AWG	10131086-091102LF

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