

PwrBlade+™ Cable Connectors

OVERVIEW

PwrBlade+™ 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+™ cable is designed to operate between –40°C and 125°C.

The PwrBlade+™ cable provides a flexible, low cost solution in applications such as telecommunication switches, high-end servers, and hot swappable power supplies.



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

MATERIALS

- Contacts: High-Performance Copper Alloy
- Plating: 0.76 µm (30µ in.) Precious metal at Contact area; 0.5 ~ 1.5 µm 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
- Product Application: GS-20-0426

TARGET MARKETS/ APPLICATIONS

- Communications
 - AC/DC pluggable power supplies in Telecom & Datacom
 - Networking equipment
 - Switches
- Data
 - Servers
 - Storage
- Industrial & Instrumentation



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 Number
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

PWRBPLUSCAB114E4