PwrBlade+® Cable Connectors

NEXT GENERATION AC/DC POWER DISTRIBUTION CONNECTOR SYSTEM

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, 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

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
PwrBlade+® Cable Connectors

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

<table>
<thead>
<tr>
<th>Wire Size</th>
<th>High Power contact (single contact rating)</th>
<th>Low Power contact (single contact rating)</th>
<th>High Power contact (4 adjacent energized contacts)</th>
<th>Low Power contact (4 adjacent energized contacts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 AWG</td>
<td>75A</td>
<td>60A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 AWG</td>
<td>55A</td>
<td>45A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 AWG</td>
<td>45A</td>
<td>35A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 AWG</td>
<td>30A</td>
<td>25A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 AWG</td>
<td>25A</td>
<td>20A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16 AWG</td>
<td>18A</td>
<td>16A</td>
<td></td>
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</tr>
</tbody>
</table>

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

PART NUMBERS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMT Housing, PwrBlade+® Cable for 8AWG</td>
<td>10128858–001</td>
</tr>
<tr>
<td>STL Housing, PwrBlade+® Cable for 8AWG</td>
<td>10128882–001</td>
</tr>
<tr>
<td>PMT Housing, PwrBlade+® Cable for 6AWG</td>
<td>10128858–008</td>
</tr>
<tr>
<td>Terminal 8AWG</td>
<td>10130389–091082LF</td>
</tr>
<tr>
<td>Terminal 6AWG</td>
<td>10130389–092062LF</td>
</tr>
<tr>
<td>Terminal 16AWG-12AWG</td>
<td>10131086–091102LF</td>
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Disclaimer
Please note that the above information is subject to change without notice.