Anderson Power Products new line of power drawer series connectors gives our customers more selections than ever to meet their power connector needs. These cost effective, mixed power and signal drawer connectors are manufactured using the same high quality standards that have made APP a leader in the power connector industry for years. The drawer series can be used for a wide range of drawer-type applications such as rectifiers, mainframe computers, telecommunications, and network equipment. If power and signal is required, let Anderson Power Products be “Your Best Connection.”

**FEATURES**

- **Industry Standard Contacts**
  Allows for cross mating with competitive product

- **Wide Selection of Contact Termination**
  Provides the designer a wide variety of packaging options

- **First-mate and Last-mate Capability**
  Grounds and powers the system before mating of signal circuits

- **Integral Guide Pins**
  Corrects misalignment during blind mating

- **Optional Floating Mount**
  Reduces fatiguing stress on connectors during blindmating

## PRODUCT SPECIFICATIONS

### Electrical

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>AWG</th>
<th>sq. mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>075MF</td>
<td>Pin housing panel float mount</td>
<td>#8</td>
<td>0.05</td>
</tr>
<tr>
<td>075ISP</td>
<td>Socket housing flush PCB mount</td>
<td>#12</td>
<td>0.43</td>
</tr>
<tr>
<td>075MSF</td>
<td>Socket housing panel float mount</td>
<td>#20</td>
<td>0.43</td>
</tr>
</tbody>
</table>

### Materials

- **Insulator**
  PBT UL94 V-0

- **Crimp Pin or Socket Body**
  Copper Alloy

- **Solder Cup Pin or Socket Body**
  Brass

- **PCB Pin or Socket Body**
  Brass

- **Female Contact**
  BeCu

### Mechanical

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>#8</th>
<th>1.80</th>
<th>0.43</th>
</tr>
</thead>
<tbody>
<tr>
<td>075MF</td>
<td>Pin housing panel float mount</td>
<td>#12</td>
<td>1.02</td>
<td>0.07</td>
</tr>
<tr>
<td>075ISP</td>
<td>Socket housing flush PCB mount</td>
<td>#20</td>
<td>1.02</td>
<td>0.07</td>
</tr>
</tbody>
</table>

### Pin Contact

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>AWG</th>
<th>sq. mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>075MF</td>
<td>Pin housing panel float mount</td>
<td>#8</td>
<td>5.59</td>
</tr>
<tr>
<td>075ISP</td>
<td>Socket housing flush PCB mount</td>
<td>#12</td>
<td>4.51</td>
</tr>
<tr>
<td>075MSF</td>
<td>Socket housing panel float mount</td>
<td>#20</td>
<td>2.90</td>
</tr>
</tbody>
</table>

### ORDERING INFORMATION

- **Float Mount Screws**
  - **FMS6-32**
    - Float mount shoulder screw 6-32 UNC2A
  - **FMS8-32**
    - Float mount shoulder screw 8-32 UNC2A
  - **FMSM4-07**
    - Float mount shoulder screw M4 x0.7

www.andersonpower.com
### Wire Strip Length

The following table represents Anderson Power Products recommended strip lengths for the wire.

<table>
<thead>
<tr>
<th>Contact Size</th>
<th>Wire Size</th>
<th>inches</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>#30</td>
<td>#30</td>
<td>0.21</td>
<td>5.3</td>
</tr>
<tr>
<td>#20</td>
<td>#24 - #20</td>
<td>0.21</td>
<td>5.3</td>
</tr>
<tr>
<td>#12</td>
<td>#14 - #12</td>
<td>0.27</td>
<td>6.9</td>
</tr>
<tr>
<td>#8</td>
<td>#80 - #8</td>
<td>0.50</td>
<td>12.7</td>
</tr>
</tbody>
</table>

### Tooling

<table>
<thead>
<tr>
<th>Contact</th>
<th>Tooling Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>#20</td>
<td>PM1000G1</td>
</tr>
<tr>
<td>#12</td>
<td>M22520/1-01 (TM0001)</td>
</tr>
<tr>
<td>#8</td>
<td>M22520/1-02 (TL0003)</td>
</tr>
</tbody>
</table>

**Contact Part Number**: APP Hand Tool or (APP Part #) + Locator / Turret or Pneumatic Bench Tool + Die + Locator

- **All Crimp Pins (Except #8)**: 1387G1 1388G6 1389G19
- **All Crimp Sockets (Except #8)**: N/A N/A N/A
- **PS08SSN & PS08FSN**: N/A N/A N/A

### Dimensions

<table>
<thead>
<tr>
<th>Housing Dimensions</th>
<th>- A -</th>
<th>- B -</th>
<th>- C -</th>
<th>- D -</th>
<th>- E -</th>
</tr>
</thead>
<tbody>
<tr>
<td>inches</td>
<td>1.31</td>
<td>.81</td>
<td>.40</td>
<td>3.31</td>
<td>3.0</td>
</tr>
<tr>
<td>mm</td>
<td>33.27</td>
<td>20.45</td>
<td>10.16</td>
<td>64.07</td>
<td>76.2</td>
</tr>
</tbody>
</table>

| inches             | 2.53  | .49   | 1.0   | .25   | .25   |
| mm                 | 64.26 | 12.45 | 25.4  | 6.35  | 6.35  |

Pin Housing

<table>
<thead>
<tr>
<th>Socket Housing (PCB)</th>
<th>Socket Housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>E</td>
<td>F</td>
</tr>
<tr>
<td>G</td>
<td>H</td>
</tr>
<tr>
<td>I</td>
<td>J</td>
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</table>

### Temperature Rise Charts

#### #20 Contact

Temperature Rise at Constant Current

- **Temperature Rise (°C)** vs **Ampers**

#### #8 Contact

Temperature Rise at Constant Current

- **Temperature Rise (°C)** vs **Ampers**

#### #12 Contact

Temperature Rise at Constant Current

- **Temperature Rise (°C)** vs **Ampers**

---

WIRE & TOOLING INFORMATION

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**Dimensions**

- **A**
- **B**
- **C**
- **D**
- **E**

- **F**
- **G**
- **H**
- **I**
- **J**

- **K**
- **L**
- **M**

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**Pin Housing**

---

**Socket Housing (PCB)**

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**Socket Housing**

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<td>#8</td>
<td>#80 - #8</td>
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- **K**
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---

**Socket Housing (PCB)**

---

**Socket Housing**

---

**Pin Housing**

---

**Temperature Rise Charts**

#### #20 Contact

Temperature Rise at Constant Current

- **Temperature Rise (°C)** vs **Ampers**

#### #8 Contact

Temperature Rise at Constant Current

- **Temperature Rise (°C)** vs **Ampers**

#### #12 Contact

Temperature Rise at Constant Current

- **Temperature Rise (°C)** vs **Ampers**

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**All Data Subject To Change Without Notice**

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