

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                           | #8   | #12          | #20  | Materials                     |                    |
|--------------------------------------|------|--------------|------|-------------------------------|--------------------|
| Current Rating - (Amperes)           | 75   | 35           | 5    | Insulator                     | PBT UL94 V-0       |
| Voltage Rating - (AC/DC)             | 600  | 600          | 600  | Crimp Pin or Socket Body      | Copper Alloy       |
| Voltage Drop mV                      | 6.00 | 3.30         | 0.70 | Solder Cup Pin or Socket Body | Brass              |
| Dielectric Withstanding Voltage (AC) |      | 2,200        |      | PCB Pin or Socket Body        | Brass              |
| Working Temperature Range (°C)       |      | -40° to 125° |      | Female Contact                | BeCu               |
| (°F)                                 |      | -40° to 257° |      |                               |                    |
| Mechanical                           | #8   | #12          | #20  | Contact Plating               |                    |
| Insertion Force Per Contact (lbf)    | 2.00 | 1.80         | 0.43 | #8 & #12                      | Silver Over Nickel |
| (N)                                  | 8.92 | 8.04         | 1.96 | #20 & #12AU                   | Gold Over Nickel   |
| Extraction Force Per Contact (lbf)   | 1.26 | 1.02         | 0.07 |                               |                    |
| (N)                                  | 5.59 | 4.51         | 0.29 |                               |                    |



## ORDERING INFORMATION

### Housings Only

| Part Number | Description                      |
|-------------|----------------------------------|
| 075MPF      | Pin housing panel float mount    |
| 075MSP      | Socket housing flush PCB mount   |
| 075MSF      | Socket housing panel float mount |

### Socket Contacts

| Part Number | Termination | Wire AWG | sq. mm |
|-------------|-------------|----------|--------|
| SC20-GN     | Crimp       | #20      | .5     |
| SS20-GN     | Solder cup  | #20      | .5     |
| SP20-GN     | PCB tail    | #20      | .5     |
| SC12-SN     | Crimp       | #12      | 2.5    |
| SS12-SN     | Solder cup  | #12      | 2.5    |
| SP12-SN     | PCB tail    | #12      | 2.5    |
| SC08-SN     | Crimp       | #8       | 10     |
| SS08-SN     | Solder cup  | #8       | 10     |
| SP08-SN     | PCB tail    | #8       | 10     |

\* Gold Plating

### Pin Contact

| Part Number | Termination / Pin Length | Wire AWG | sq. mm |
|-------------|--------------------------|----------|--------|
| PC20SGN     | Crimp, standard          | #20      | .5     |
| PC20FGN     | Crimp, premate           | #20      | .5     |
| PC20LGN     | Crimp, postmate          | #20      | .5     |
| PS20SGN     | Solder cup, standard     | #20      | .5     |
| PS20FGN     | Solder cup, premate      | #20      | .5     |
| PS20LGN     | Solder cup, postmate     | #20      | .5     |
| PP20SGN     | PCB tail, standard       | #20      | .5     |
| PP20FGN     | PCB tail, premate        | #20      | .5     |
| PP20LGN     | PCB tail, postmate       | #20      | .5     |
| PC12SGH     | Crimp, standard          | #12 hp*  | 2.5    |
| PC12FGH     | Crimp, premate           | #12 hp*  | 2.5    |
| PC12LGH     | Crimp, postmate          | #12 hp*  | 2.5    |
| PS12SGH     | Solder cup, standard     | #12 hp*  | 2.5    |
| PS12FGH     | Solder cup, premate      | #12 hp*  | 2.5    |
| PS12LGH     | Solder cup, postmate     | #12 hp*  | 2.5    |
| PP12SGH     | PCB tail, standard       | #12 hp*  | 2.5    |
| PP12FGH     | PCB tail, premate        | #12 hp*  | 2.5    |
| PP12LGH     | PCB tail, postmate       | #12 hp*  | 2.5    |
| PC12SSN     | Crimp, standard          | #12      | 2.5    |
| PC12FSN     | Crimp, premate           | #12      | 2.5    |
| PC12LSN     | Crimp, postmate          | #12      | 2.5    |
| PS12SSN     | Solder cup, standard     | #12      | 2.5    |

### pin contact continued

| Part Number | Termination / Pin Length | Wire AWG | sq. mm |
|-------------|--------------------------|----------|--------|
| PS12FSN     | Solder cup, premate      | #12      | 2.5    |
| PS12LSN     | Solder cup, postmate     | #12      | 2.5    |
| PP12SSN     | PCB tail, standard       | #12      | 2.5    |
| PP12FSN     | PCB tail, premate        | #12      | 2.5    |
| PP12LSN     | PCB tail, postmate       | #12      | 2.5    |
| PC08SSN     | Crimp, standard          | #8       | 10     |
| PC08FSN     | Crimp, premate           | #8       | 10     |
| PS08SSN     | Solder cup, standard     | #8       | 10     |
| PS08FSN     | Solder cup, premate      | #8       | 10     |
| PP08SSN     | PCB tail, standard       | #8       | 10     |
| PP08FSN     | PCB tail, premate        | #8       | 10     |

### Float Mount Screws

| Part Number | Description                           |
|-------------|---------------------------------------|
| 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    |

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## WIRE/TOOLING INFORMATION

### Wire Strip Length

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

| Contact Size | Wire Size | inches | mm   |
|--------------|-----------|--------|------|
| #20          | #24 - #20 | 0.21   | 5.3  |
| #12          | #14 - #12 | 0.27   | 6.9  |
| #8           | #10 - #8  | 0.50   | 12.7 |

### Tooling

The following table represents the crimp tooling recommended for crimp contacts. Consult APP factory for ordering information.

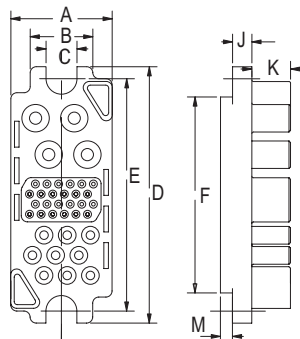
| Part Number | Mil-standard | Description                              | Wire AWG     | sq. mm     |
|-------------|--------------|------------------------------------------|--------------|------------|
| PM1000G1    | N/A          | Four indent hand tool                    | #12 / 24     | 2.5 / 0.50 |
| TM0001      | M22520/1-01  | AF8 hand tool                            | #12 / 24     | 2.5 / 0.50 |
| TP0001      | N/A          | WA27F pneumatic tool                     | #12 / 24     | 2.5 / 0.50 |
| TL0003      | M22520/1-02  | Turret & locator for TM0001 & TP0001     | #12 / 24     | 2.5 / 0.50 |
| PM1001G1    | N/A          | Semi automatic loose piece crimp machine | #12 / 24     | 2.5 / 0.50 |
| 1387G1      | M22520/23-01 | Pneumatic crimp tool                     | #8 / 10      | 6.0        |
| 1388G6      | M22520/23-02 | Indenter head                            | #8 / 10      | 6.0        |
| 1389G19     | M22520/23-09 | Locator                                  | #8 / 10      | 6.0        |
| 100G2       | N/A          | Insertion & removal kit                  | #8 / 12 / 20 | N/A        |

## DIMENSIONS

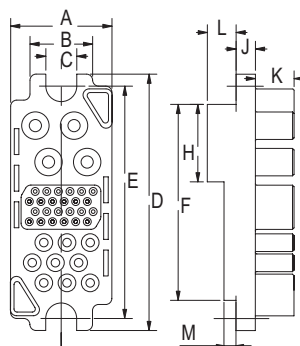
### Housing Dimensions

|        | -A-   | -B-   | -C-   | -D-   | -E-  |
|--------|-------|-------|-------|-------|------|
| inches | 1.31  | .81   | .40   | 3.31  | 3.0  |
| mm     | 33.27 | 20.45 | 10.16 | 84.07 | 76.2 |
|        | -F-   | -G-   | -H-   | -I-   | -J-  |
| inches | 2.53  | .49   | 1.0   | .25   | .25  |
| mm     | 64.26 | 12.45 | 25.4  | 6.35  | 6.35 |
|        | -K-   | -L-   | -M-   |       |      |
| inches | .50   | .39   | .15   |       |      |
| mm     | 12.7  | 9.91  | 3.81  |       |      |

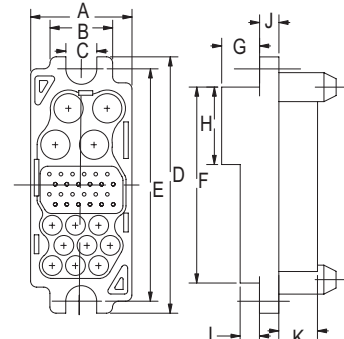
### Socket Housing (PCB)



### Socket Housing



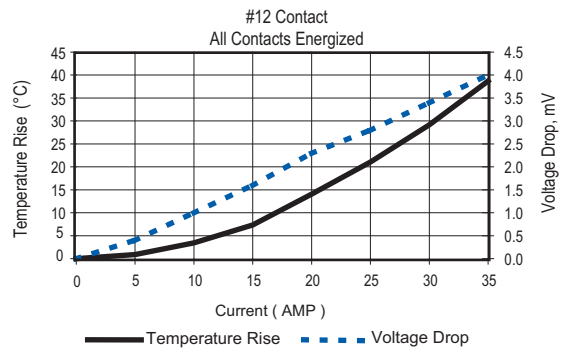
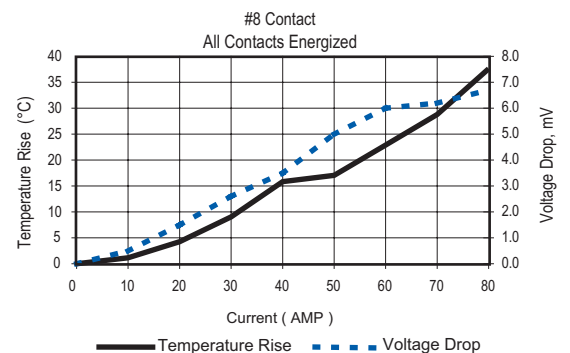
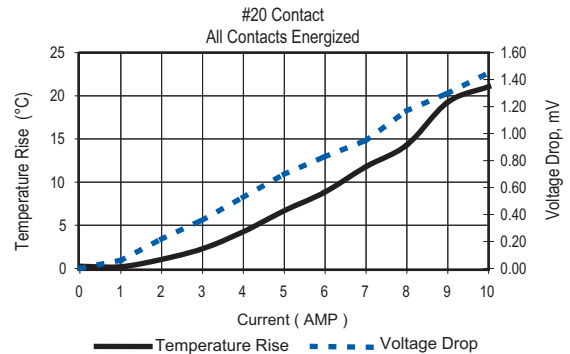
### Pin Housing



All Data Subject To Change Without Notice

DS-PD75 REV11

## TEMPERATURE RISE CHARTS



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