75 amp Power Drawer®
Connector

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	#30
Current Rating - (Amperes)	75	35	5	3
Voltage Rating - (AC/DC)	600	600	600	600
Voltage Drop mV	6.00	3.30	0.70	0.81
Dielectric Withstanding Voltage (AC)	2,200			
Working Temperature Range (°C)	-40° to 125°			
(°F)	-40° to 257°			

Mechanical	#8	#12	#20	#30
Insertion Force Per Contact (lbf)	2.00	1.80	0.43	0.43
(N)	8.92	8.04	1.96	1.96
Extraction Force Per Contact (lbf)	1.26	1.02	0.07	0.07
(N)	5.59	4.51	0.29	0.29
Mating Cycles No Load	250			

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

Contact Plating	
#8 & #12	Silver Over Nickel
#20, #12AU & #30	Gold Over Nickel

RoHS-II COMPLIANT APP c UL us File No. E26226

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	Wire sq. mm
SC30-GN	Crimp	#30	.05
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	Wire sq. mm
PC30SGN	Crimp, standard	#30	.05
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	Wire 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
#30	#30	0.21	5.3
#20	#24 - #20	0.21	5.3
#12	#14 - #12	0.27	6.9
#8	#10 - # 8	0.50	12.7

Tooling

Contact Part Number	APP Hand Tool	or	Mil Std.Tool (APP Part #)	+	Locator / Turret	or	Pneumatic Bench Tool	+	Die	+	Locator
All Crimp Pins (Except #8)	PM1000G1		M22520/1-01 (TM0001)		M22520/1-02 (TL0003)		TP0001		N/A		TL0003
All Crimp Sockets (Except #8)											
PS08SSN & PS08FSN	N/A		N/A		N/A		1387G1		1388G6		1389G19
SC08-SN											

DIMENSIONS

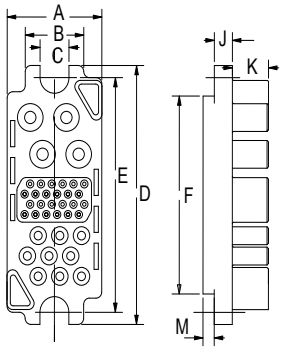
Housing Dimensions

	- 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

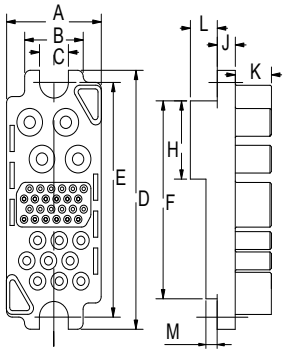
	- F -	- G -	- H -	- I -	- J -
inches	2.53	.49	1.0	.25	.25
mm	64.26	12.45	25.4	6.35	6.35

	- K -	- L -	- M -
inches	.50	.39	.15
mm	12.7	9.91	3.81

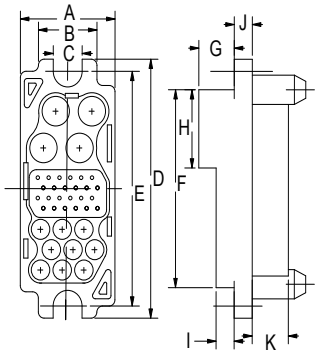
Socket Housing (PCB)



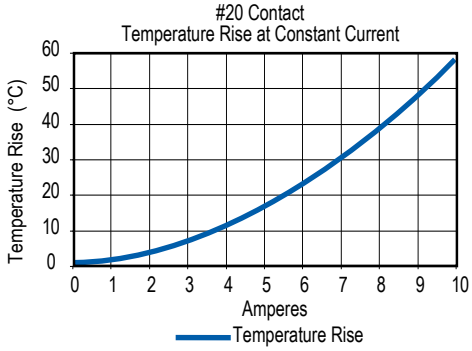
Socket Housing

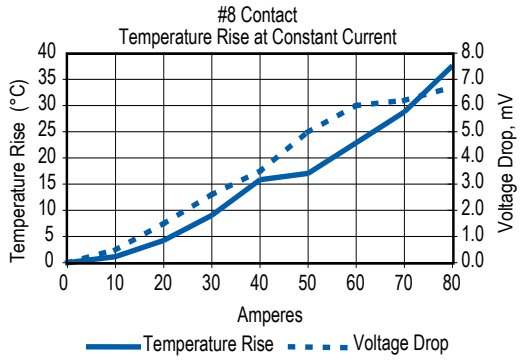


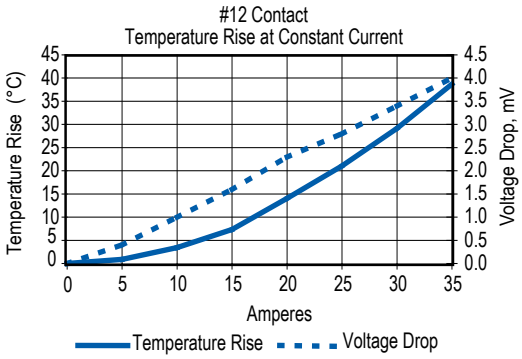
Pin Housing



TEMPERATURE RISE CHARTS







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