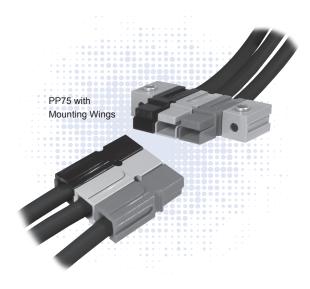
## Powerpole® Connectors - PP75: up to 120 Amps



PP75 series Powerpole® housings can be used for wire-to-wire, wire-to-board, and wire-to-busbar applications. Wire sizes from #16 AWG (1.3 mm²) to #6 (13.3 mm²) offer power capabilities up to 120 amps per pole. Locking housings offer the capability to secure Powerpole® housings to each other and to mounting pads. Housings made from chemical resistant (CR) resin withstand industrial solvents better than standard housings.

- Large Wire Range Accommodates up to #6 (10mm²) Wire Reducing bushings allow as small as #16 (1.5 mm²) wire to be used
- Wire, PCB, and Busbar Contacts

  Allows one connection system to meet multiple needs
- Mini-Powerclaw PCB Contacts Minimize PCB Footprint Removes the PP75 housing from the board side

## | PP75 ORDERING INFORMATION |

#### **PP75 Standard Housings**

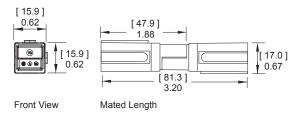
The second smallest Powerpole® housing can be used with wire contacts for up to 6 AWG [10mm²] as well as PCB and busbar contacts.

Description	Part Numbers		
Minimum Quantity .	1,000	100	
Red	5916G7-BK	5916G7	
Green	5916G6-BK	5916G6	
Black	5916G4-BK	5916G4	
White	5916G5-BK	5916G5	
Blue	5916-BK	5916	
Yellow	5916G15-BK	5916G15	
Orange	5916G14-BK	5916G14	
Gray	5916G16-BK	5916G16	

#### PP75 Chemical Resistant (CR) Housings

Has the same form and dimensions of the standard PP75 housing in a chemical resistant PBT/ PC blend housing. Suitable for use to -40°C.

Description	- Part Numbers -
Minimum Quantity .	1,000
Red	P5916G7-BK
Black	P5916G4-BK
White	P5916G5-BK
Blue	P5916-BK



Material ID V0 = Standard
Located Here P = Chemical Resistant

(V0)

(A)

(A)

(B)

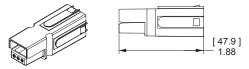
(B)

(B)

#### **PP75 Locking Dovetail Housings**

Offers dovetails for stacking housings that have a locking feature to prevent housings separating. Can mate to standard and chemical resistant housings, but cannot be stacked with them.

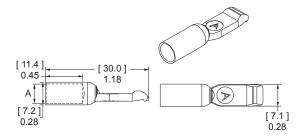
Description	Part Nun	nbers	
Minimum Quantity	1,000	100	
Red	75LOKRED-BK	75LOKRED	
Green	75LOKGRN-BK	75LOKGRN	
Black	75LOKBLK-BK	75LOKBLK	
White	75LOKWHT-BK	75LOKWHT	
Blue	75LOKBLU-BK	75LOKBLU	
Grav	75LOKGRA-BK	75LOKGRA	



#### **PP75 Silver Plated Wire Contacts**

Silver plated contacts offer the best electrical performance and durability up to 10,000 mating cycles. See reducing bushings in accessory section for smaller wires.

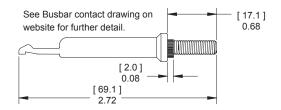
					Dimen	sions
		Mating	Loose	Piece	- /	۹ -
AWG	mm²	Force	Part Nu	mbers	inches	mm
Minimum (	Quantity		1,000	100		
6	13.3	Low	1307-BK	1307	0.22	5.59
6	13.3	High	5900-BK	5900	0.22	5.59
8	8.4	High	5952-BK	5952	0.19	4.83
12 to 10	3.3 to 5.3	Low	5953-BK	5953	0.14	3.56
12 to 10	3.3 to 5.3	High	5915-BK	5915	0.14	3.56



#### **PP75 Silver Plated Busbar Contacts**

Provide a quick disconnect input or output busbar connection. Busbar contacts are for mating with wire contacts only. Part number 75BBS includes lock nuts. Locknuts must be ordered separately for B01956P4.

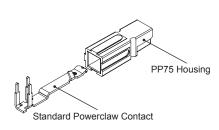
		Mating			
Type	Thread	Force	P	art Numbers	s
Minimum	Quantity		1,000	20	10
Busbar	#10-24	High	B01915P1	-	75BBS
Lock Nut	#10-24	-	H1216P8	110G54	-

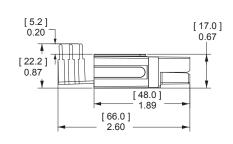


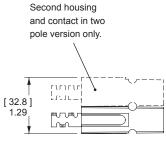
#### **55A Right Angle Standard Powerclaw PCB Contacts**

Standard Powerclaw contacts are for use inside a PP75 housing and provide a color coded right angle connection to the PCB.

Description	Loose Piece	Part Numbers
Minimum Quantity	500	100
Tin Plated	PC5930T-BK	PC5930T
Silver Plated	PC5930S-BK	PC5930S







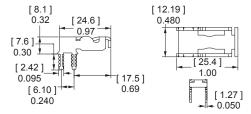
See PCB contact drawing on website for further detail.

#### 55A Right Angle Mini Powerclaw PCB Contacts

Right angle Mini Powerclaw contacts can be used on the PCB edge without a PP75 housing on the PCB side. A self polarizing design only allow PP75 wire housings to mate to PCB contacts one way.

	Loose F	Loose Piece		
Description	Part Nur	nbers		
Minimum Quantity	/ 1,000	100		
Tin Plated	PC5934T-BK	PC5934T		
Silver Plated	PC5934S-BK	PC5934S		



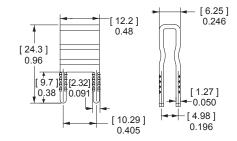


#### 55A Vertical Mini Powerclaw PCB Contacts

Vertical Mini Powerclaw contacts save space by not requiring a PP75 housing on the PCB side. The guide housing is required for 2 pole applications to provide a polarized connection. (See PP75 accessories).

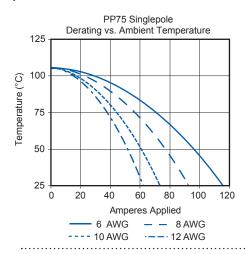
	Loose Piece		
Description	Part Nu	mbers	
Minimum Quantity	1,500	100	
Tin Plated	PC5933T-BK	PC5933T	
Silver Plated	DC20336 BK	DCE0336	

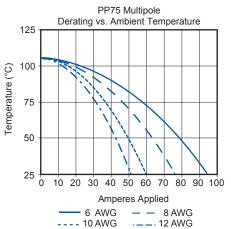


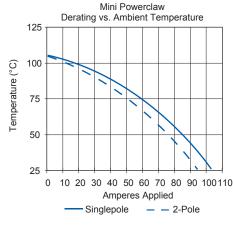


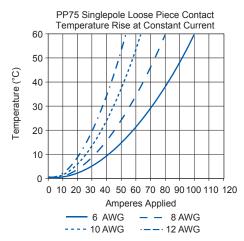
See PCB contact drawing on website for further detail.

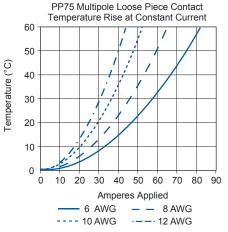
## | PP75 TEMPERATURE CHARTS |

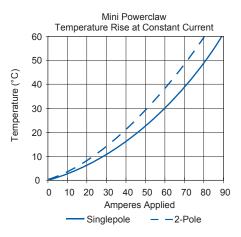












NOTE: Temperature rise charts are based on a 25°C ambient temperature. Powerclaw charts are based on #8 AWG equivalent copper foil on board side, mated to #6 AWG conductor on wire side.

## | PP75 SPECIFICATIONS |

Electrical		
Current Rating Amperes <sup>1</sup>	UL 1977	CSA
Wire to Wire (6 AWG)	120	70
Wire to PCB (6-AWG)	55	50
Wire to Busbar (6 AWG)	75	
Voltage Rating AC/DC		
UL 1977	600	
PCB Connector Recommended Voltage	ј <b>е</b> <sup>3</sup>	
per IEC 60950-1 Table 2L Pollution De	gree <sup>2</sup>	
Mini Vert. Contact Adjacent Poles	220	
Mini Horiz. Contact Adjacent Poles	200	
Standard Contact Adjacent Poles	635	
Dielectric Withstanding Voltage		
Volts AC	2,200	
Avg. Mated Contact Resistance Milliol	nms¹	
Wire Contact with 1 1/4" of #6 AWG	0.200	
PCB Contact to Contact	0.500	
UL Hot Plug Current Rating Amperes Wire- wire	- <b>250 cycles</b> 50A	at 120V DC
PCB- wire (Vertical Mini Powerclaw)	40A	

Materials	
Housing	
Standard Plastic Resin	Polycarbonate
Chem. Resistant Resin	Polycarbonate / PBT blend
Contact Retention Spring	Stainless Steel
Housing Flammability Rating	
UL94	V-0
Contact	
Base	Copper Alloy
Wire Plating	Silver
PCB Plating	Sn or Ag over Ni
Contact Termination Methods	5
Crimp⁴	Wire Contacts
Hand Solder	Wire and PCB Contacts
Solder Dip*	PCB Contacts
Wave Solder*	PCB Contacts
Wrench / Socket	Busbar Contacts
<sup>1</sup> Based on: 105°C rated or bette	er cable of the largest size. Properly ca

3.3
105°
105°
1)

#### **Protection**

Touch Safety with Wire Contacts IEC 60529 IP10

- <sup>2</sup> Limited by the thermal properties of the connector plastic housing.
- <sup>3</sup> Without use of spacers to increase creepage and clearance distances.

<sup>&</sup>lt;sup>4</sup> Use APP® recommended tooling only. Alternate tools may adversely affect the performance of our connectors along with UL and CSA recognition.









<sup>&</sup>lt;sup>1</sup> Based on: 105°C rated or better cable of the largest size, Properly calibrated APP® recommended tooling, and a 25°C ambient temperature. UL rating not to exceed the maximum operating temperature. CSA rating below a 30°C temperature rise.

## | Powerpole® PP75 Accessories |

#### **Strain Relief Grommets**

Use for strain relief in the back side of a PP75 housing. Wire gauge given for reference only, use grommet ID and wire OD to determine suitability in the end application.

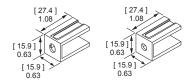
		Dimensions	
		- /	۸ -
Description	- Part Numbers -	inches	s mm
Minimum Quantity	100		
#6 AWG, Black	114411P2	0.35	8.89
#8 AWG, Black	114411P1	0.25	6.35
#10 - 12 AWG, Black	114411P3	0.17	4.32

# A

#### **Mounting Wing for Standard or CR Housings**

Mounting wings can be used to secure dovetailed Powerpole® 75 series housings by passing fasteners through the wings in either a horizontal or vertical orientation. Useful for sheet metal panels, printed circuit boards, and many other mounting surfaces. Fasteners not included.

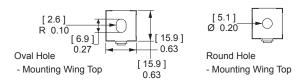
Description	Part Numbers						
Minimum Quantity	1,000	100					
Blue, Round Hole	1399G20-BK	1399G20					
Blue, Oval Hole	1399G7-BK	1399G7					



#### **Mounting Wing for Locking Housings**

Mounting wings can be used to secure Powerpole® 75 series housings with locking dovetails by passing fasteners through the wings in either a horizontal or vertical orientation. Useful for sheet metal panels, printed circuit boards, and many other mounting surfaces. Fasteners not included.

Description	Part Numbers					
Minimum Quantity	1,000	100				
Blue, Oval Hole	75LOKWNGBLU-BK	75LOKWNGBLU				
Blue Round Hole	75I OKWNGBI U-R-BK	75I OKWNGBI U-R				

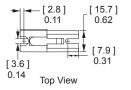


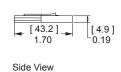


#### **Surface Mount for Locking Housings**

Use to secure Powerpole® 75 series housings with locking dovetails to a flat surface. Useful for sheet metal panels, printed circuit boards, and many other mounting surfaces. Fasteners not included.

Description	Part Numbers						
Minimum Quantity	1,000	100					
Blue	75LOKSMTBLU-BK	75LOKSMTBLU					



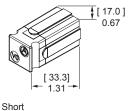


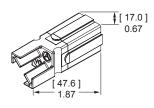


#### **Spacer**

Use to separate housings under high power to minimize power capability derating due to heat rise. They are recommended for squaring off a block of Powerpole® 75 housings to enable mounting accessories or retaining pins to be used. Combining long and short spacers opposite each other in a mated block adds keying features, or use two short spacers to avoid interference.

Description	Part N	umbers
Minimum Quantity	1000	100
Red, Short	Availabl	e Soon
Red. Long	Availabl	e Soon



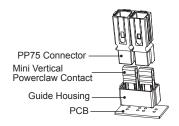


Long

#### **Guide Housings for Vertical Mini Powerclaw Contacts**

Prevents polarity being reversed when a two pole PP75 block is mated to vertical mini Powerclaw contacts. Fastening hardware not included.

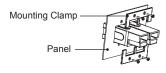
Description	Part Numbers						
Minimum Quantity	1,000	100					
Black Guide Housing	PC-HSG-PP-BK	PC-HSG-PP					



#### **Mounting Clamp**

Mounting clamps can be used for fastening a block of Powerpole® 75 series housings to a panel. Connector blocks must be a complete square for the clamps to work properly. Fastening hardware not included.

Description	Part Numbers -				
Minimum Quantity	50 sets of 2				
2 or 4 Pole	1463G1				
3 or 6 Pole	1463G2				



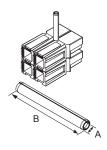




#### **Retaining Pins**

Retaining pins are used to keep stacked Powerpole® 75 series housings from separating. Retaining pins are inserted in the circular opening between two housings stacked side by side. Dimension B is +/- 0.015 in or 0.38 mm.

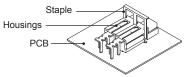
			Dimensions					
			- A -		- B -			
Description	Part Nu	mbers	inches	mm	inches	mm		
Minimum Quantity .	1,000	100						
1 Block High	111812P7	110G19	0.196 / 0.207	4.98 / 5.26	0.560	14.220		
2 Block High	111812P6	110G18	0.196 / 0.207	4.98 / 5.26	1.000	25.400		

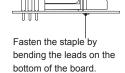


#### **PCB Mounting Staples**

Reduce strain on solder joints during mating and unmating. Staples bend over the underside of the PCB board to lock the housings in place. Staples are an interference fit with housings.

	Number of Stacked Powerpoles®
Part Numbers	HxW
Minimum Quantity	100
PCSTAPLE-1	1 x 1
PCSTAPLE-2	1 x 2



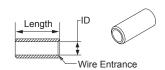


Slide staple over housings and into the holes in the board.

#### **Reducing Bushings**

Use with contact part number 5900-BK or 1307-BK to allow a smaller wire to be used with the connector. Electrical capability is derated with smaller wire.

						Dimensions			
						- ID	) -	- Ler	ngth -
Contact Barrel Size	Wire Size		Part I	Numbers		inches	mm	Inches	mm
Minimum Quantity			3,000	1,000	100 .				
#6 AWG [13.3 mm <sup>2</sup> ]	#8 AWG [8.4 mm <sup>2</sup> ]		-	5912-BK	5912	0.18	4.57	0.45	11.43
#6 AWG [13.3 mm <sup>2</sup> ]	#12- 10 AWG [3.3- 5	5.3 mm <sup>2</sup> ]	5910-BK	-	5910	0.14	3.56	0.47	11.94
#6 AWG [13.3 mm <sup>2</sup> ]	#16- 14 AWG [1.3- 2	2.1 mm²]	5913-BK	-	5913	0.09	2.29	0.47	11.94



For environmentally sealed connector shells to hold Powerpole® 15-180 connectors, see APP®'s SPEC Pak® product series on our website, www.andersonpower.com

.....











# Powerpole® - Tooling Information

Wire	Size	Loose Piece	Part Numbers	Loc	se Piece	Contac	t Crimp	Tool	Reeled Par	t Numbers	Reeled Co	Reeled Contact Crimp Tools		
AWG	mm²	Tin Plating	Silver Plating	Hand Tool or	Pneumatic Bench Tool	+ Die	+ Locator	Number of Crimps	Tin Plating	Silver Plating	ATS Applicator	ATS Press	Air Feed Kit*	
	PP15 / 45 Flat Wiping Power & Ground													
16 / 20	1.3 / 0.52	N/A	1332		1367G1				N/A	N/A	N/A	N/A	N/A	
12 / 16	3.3 / 1.3	N/A	1331	1309G2	100701				IWA	14/74	IWA	14/74	19/74	
16 / 20	1.3 / 0.52	262G1-LPBK	262G2-LPBK	or					262G1	262G2	1385519-1			
16 / 20	1.5 / 0.52	200G2L-LPBK	200G4L-LPBK	1309G8					200G2L	200G4L	TBD			
16 / 20	1.3 / 0.52	269G2-LPBK	N/A						269G2	N/A	1385519-1			
12 / 16	3.3 / 1.3	261G1-LPBK	261G4-LPBK		N/A	N/A	N/A	Single	261G1	261G4	1385520-1			
10 / 14	5.3 / 2.1	261G2-LPBK	261G3-LPBK	1309G3	IN/A	IN/A	IN/A	Sirigie	261G2	261G3	1385458-1	1725900-2 or	1424266-1 or	
12 / 16	3.3 / 1.3	269G1-LPBK	N/A	or 1309G8					269G1	N/A	1385520-1		[354578-1]	
10 / 14	5.3 / 2.1	269G3-LPBK	N/A						269G3	N/A	1385458-1	]		
10 / 14	6.0 / 2.1	200G1L-LPBK	200G3L-LPBK	1309G6 or					200G1L	200G3L	1385460-1			
10 / 14	6.0 / 2.1	201G1H-LPBK	201G3H-LPBK						201G1H	201G3H	1385460-1			
10 / 14	6.0 / 2.1	1830G1-LPBK	1830G2-LPBK	1309G8					1830G1	1830G2	1385460-1			
							PP75							
#6	13.3		1307											
#10	10.0		5900			1388G6			265G5		1385523-1	2-565435-2	692655-1	
#8	8.4	N/A	5952	1309G4	1309G4 138	1309G4 1387G1	1387G1	1389G6	389G6 Single		N/A			
#10 / 12	53/33		5953			1388G7			265G6		1385522-1	1725900-2 or	1424266-1 or	
#10712	0.07 0.0		5915				100007			20000		1000022-1	[3-54500-1]	
							PP120							
1/0	53.5		1323G2			1388G3								
#1	42.4		1323G1											
#2	33.6	N/A	1319	1368	1387G1		1389G4	Single	N	/A		N/A		
#4	21.2		1319G4				1388G4							
#6	13.3		1319G6											
							PP180							
3/0	85		1328G2			1303G12								
2/0	53.5		1328G1		1387G2		1304G32	Double						
1/0	53.5		1382			1303G13								
#1	42.4	N/A	1347	1368	1387G1	1388G3	1389G3	Single	N	/A		N/A		
#2	33.6		1383		1387G2	1303G13	1304G32	Double						
					1387G1	1388G3	1389G3	Single						
#4	21.1		1384				1304G32	Double						
#6	13.3		1348		1387G1	1388G4	1389G3	Single						
		I	.5.5											

<sup>\*</sup> All ATS applicators for APP® contacts are air feed style, (except 1385870) and require the press to have an air feed kit installed. NOTE: See website for the most current information.

# AMEYA360 Components Supply Platform

## **Authorized Distribution Brand:**

























## Website:

Welcome to visit www.ameya360.com

## Contact Us:

## > Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

## > Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

## Customer Service :

Email service@ameya360.com

## Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com