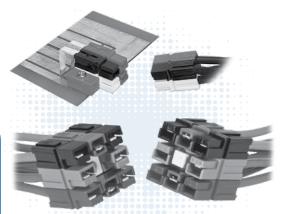
# Powerpole® Connectors - PP15 to PP45: up to 55 Amps



PP15-45 series are the smallest Powerpole® housings. They can be used for wire-to-wire or wire-to-board applications. Wire sizes from #20 AWG (0.5 mm²) to #10 (6 mm²) offer power capabilities up to 55 amps per pole. Finger proof housings and the ability to incorporate first-mate last-break ground connectors enhance the capabilities of this Powerpole® series.

#### **High Power Density**

· Up to 55 amps in a compact footprint

#### Wire-to Wire & Wire-to-Board Configurations

Wire & PCB contacts can be used in the same housings

#### **Finger Proof Housings Available**

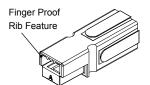
· Protects against accidental contact with live circuits

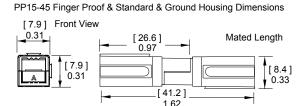
### PP15-45 ORDERING INFORMATION |

#### **PP15-45 Finger Proof Housings**

Improved on the original APP® design by adding ribs to mating interface to protect against accidental contact with live circuits. Meets the requirements of UL1977 section 10.2 and is rated IP20. Will not mate with standard housings.

Description	Part Numbers					
Minimum Quantity .	2,500	200				
Red	1327FP-BK	1327FP				
Green	1327G5FP-BK	1327G5FP				
Black	1327G6FP-BK	1327G6FP				
White	1327G7FP-BK	1327G7FP				
Blue	1327G8FP-BK	1327G8FP				
Yellow	1327G16FP-BK	1327G16FP				

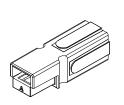




#### **PP15-45 Standard Housings**

The original housing design has an open interface and is available in a wide array of colors. Will not mate with finger proof housings.

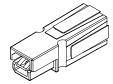
Description	Part Num	nbers
Minimum Quantity	2,500	200
Red	1327-BK	1327
Green	1327G5-BK	1327G5
Black	1327G6-BK	1327G6
White	1327G7-BK	1327G7
Blue	1327G8-BK	1327G8
Yellow	1327G16-BK	1327G16
Orange	1327G17-BK	1327G17
Gray	1327G18-BK	1327G18
Brown	1327G21-BK	1327G21
Pink	1327G22-BK	1327G22
Purple	1327G23-BK	1327G23



#### **45A Premate Ground Housings**

Green housings are keyed to prevent accidental mating with standard or finger proof Powerpole® housings.

De	scription	Part Nu	ımber
Mi	nimum Quantity .	2,500	200
Gr	een	1827G1-BK	1827G1



#### **PP15-45 Tin Plated Power Contacts**

Offer cost effective performance up to 1,500 mating cycles. See specifications and temperature charts for amperage ratings by wire size.

						Dimens	sions
			Mating	Loose Piece	Reeled	- A	-
Barrel	AWG	mm²	Force	Part Numb	oers	inches	mm
Minimu	ım Quantity			200	5,000		
Open	14 to 10 K*	2.1 to 5.3	High	269G3-LPBK	269G3	0.21	5.33
Open	14 to 10 K*	2.1 to 5.3	Low	261G2-LPBK	261G2	0.20	5.08
Open	14 to 10 SF*	2.1 to 6.0	High	201G1H-LPBK	201G1H	0.24	6.10
Open	14 to 10 SF*	2.1 to 6.0	Low	200G1L-LPBK	200G1L	0.24	6.10
Open	16 to 12	1.3 to 3.3	High	269G1-LPBK	269G1	0.18	4.57
Open	16 to 12	1.3 to 3.3	Low	261G1-LPBK	261G1	0.18	4.57
Open	20 to 16	0.52 to 1.3	High	269G2-LPBK	269G2	0.16	4.06
Open	20 to 16	0.52 to 1.3	Low	262G1-LPBK	262G1	0.16	4.06
Open	20 to 16 SF*	0.52 to 1.5	Low	200G2L-LPBK	200G2L	0.20	5.08

K\* - For #10 AWG class K stranded wire or smaller. For larger wires use superflex contacts.

SF\*- Indicates wires with high stranding such as Super Flex.







#### **PP15-45 Silver Plated Power Contacts**

Maximize performance by offering up to 10,000 mating cycles and are recommended for circuit interrupt or hot plug applications. See specifications and temperature charts for amperage ratings by wire size. Only closed barrel contacts are suitable for soldering.

								Dime	nsions	
			Mating	Loo	se Piece	Reeled	- A	١-	- B	-
Barrel	AWG	mm²	Force	Part	Number	Part Number	inches	mm	inches	mm
Minimum (	Quantity			5,000	200	5,000				
Open	14 to 10 K*	2.1 to 5.3	Low	-	261G3-LPBK	261G3	0.20	5.08	-	-
Open	14 to 10 SF*	2.1 to 6.0	High	-	-	201G3H	0.24	6.10	-	-
Open	14 to 10 SF*	2.1 to 6.0	Low	-	200G3L-LPBK	200G3L	0.24	6.10	-	-
Open	16 to 12	1.3 to 3.3	Low	-	261G4-LPBK	261G4	0.18	4.57	-	-
Open	20 to 16	0.52 to 1.3	Low	-	262G2-LPBK	262G2	0.16	4.06	-	-
Open	20 to 16 SF*	0.52 to 1.5	Low	-	-	200G4L	0.20	5.08	-	-
Closed	16 to 12	1.3 to 3.3	Low	1331-BK	1331	-	0.15	3.81	0.10	2.54
Closed	20 to 16	0.52 to 1.3	Low	1332-BK	1332	-	0.12	3.05	0.07	1.78

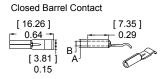


[ 3.81 ] 0.15

Open Barrel Contact

[17.27]

0.68



[ 6.35 ]

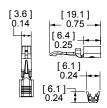
-0.25

#### **45A Premate Ground Wire Contacts**

Tin or silver plated contacts are rated for ground or power. Hand tools are available for loose piece contacts. Reeled contacts can be used with high volume press and applicator tooling. Tin contacts are rated for up to 1,500 mating cycles. Silver contacts are rated up to 10,000 mating cycles.

					Reeled
			Mating	Loose Piece	Part
Туре	AWG	mm²	Force	- Part Numbers -	- Numbers -
Minimum Qua	ntity			200	5,000
Open, Tin	14 to 10	2.1 to 6.0	Low	1830G1-LPBK	1830G1
Open, Silver	14 to 10	2.1 to 6.0	Low	1830G2-LPBK	1830G2

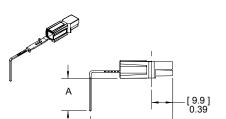
#### Open Barrel Premate Contact



#### 25A Right Angle PCB Contacts Tin Plated

Suitable for right angle applications up to 25A per pole. Tin plating enhances solderability. Cannot be mixed with 45A PCB contacts. For mating with wire contacts only.

					Dime	nsions	
	Mating	Loose F	Piece	- A	B -		3 -
Row	Force	Part Nur	mbers	inches	mm	inches	mm
Minimum	Quantity .	1,000	100				
Тор	Low	1377G1-BK	1377G1	0.59	14.80	1.52	38.60
	High	1317G1-BK	1317G1				
Bottom	Low	1377G2-BK	1377G2	0.29	7.20	1.36	34.50
	High	1317G2-BK	1317G2				
Тор	Low	1377G11-BK	1377G11	0.59	14.80	1.21	30.70
	High	1317G11-BK	1317G11				
Bottom	Low	1377G12-BK	1377G12	0.29	7.20	1.01	25.70
	High	1317G12-BK	1317G12				



Use mounting staples with right angle contacts (see accessories).

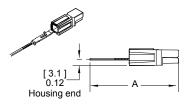
В

See website for PCB layout drawing

#### 25A Vertical PCB Contacts Tin Plated

For mating with wire contacts only. Suitable for vertical applications up to 25A per pole, tin plating enhances solderability.

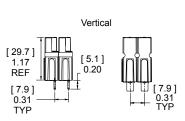
		Dimensions		
Mating	Loose Piece		- A -	
Force	Part Numbers	·	inches	mm
Minimur	n Quantity 1,000	100		
Low	1377G3-BK	1377G3	2.22	56.40
High	1317G3-BK	1317G3	2.22	56.40
Low	1377G4-BK	1377G4	1.76	44.70
High	1317G4-BK	1317G4	1.76	44.70
Low	1377G13-BK	1377G13	1.17	29.70
High	1317G13-BK	1317G13	1.17	29.70

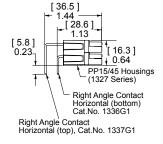


#### 45A Right Angle and Vertical PCB Contacts Tin Plated

Suitable for right angle or vertical applications up to 45A per pole. Tin plating enhances solderability. Right angle contacts cannot be mixed with 25A PCB contacts. For mating with wire contacts only.

	Loose Piece		
Description	Pai	rt Numbers	
Minimum Quantity	1,000	100	
Vertical Right Angle Bottom Row Right Angle Top Row	3-5911P1 3-5912P1 3-5913P1	1335G1 1336G1 1337G1	





Use mounting staples with right angle contacts (see accessories).

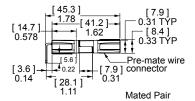
K\* - For #10 AWG class K stranded wire or smaller. For larger wires use superflex contacts.

SF\*- Indicates wires with high stranding such as Super Flex.

#### **45A Premate Ground PCB Contacts**

Right angle contacts are suitable for power or ground. Use to mate with 45A ground wire contacts. Tin plated contacts are rated up to 1,500 mating cycles. Can be used with other 45A PCB connectors in the bottom row.

	Mating	Loose Piece			
	Force	Part Nu	mbers		
Minimum Quantity		1000	100		
PCB. Bottom Row	Low	3-5952P1	1836G1		



# | PP15-45 ULTRASONICALLY BONDED ASSEMBLIES |

Assemblies feature housings that are ultrasonically welded to create a one piece connector unit using an APP® special process. After welding, retaining pins are no longer required to secure the stacked housings to each other. This allows Powerpole® 15-45 connectors to be used as a durable one piece connector header. Contact customer service for configurations not shown below.

#### Single Row 1x2 Assemblies

		Housings with	Housings with		
		45A Vertical	45A Right Angle	Color & Type	
Circuit Description	Housings Only	PCB Contacts	PCB Contacts	Position	Matrix
Minimum Quantity	500	500	500	1	2
DC 2 Wire Standard Housings	ASMPP30-1X2-RK	ASMPV45-1X2-RK	ASMPR45-1X2-RK	RED / STD	BLK / STD
DC 2 Wire Reverse Standard Housings	ASMPP30-1X2-KR	ASMPV45-1X2-KR	ASMPR45-1X2-KR	BLK / STD	RED / STD
DC 2 Wire Finger Proof	ASMFP30-1X2-RK	ASMFV45-1X2-RK	ASMFR45-1X2-RK	RED / FP	BLK / FP
DC 2 Wire Finger Proof Reverse	ASMFP30-1X2-KR	ASMFV45-1X2-KR	ASMFR45-1X2-KR	BLK / FP	RED / FP

#### Single Row 1x3 Assemblies

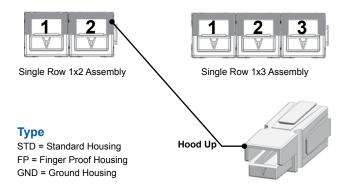
		Housings with	Housings with			
		45A Vertical	45A Right Angle	Color & Type		
Circuit Description	Housings Only	PCB Contacts	PCB Contacts		Position Matrix	
Minimum Quantity	500	500	500	1	2	3
DC 2 Wire Finger Proof with Ground	ASMFP30-1X3-KER	N/A	ASMFR45-1X3-KER	BLK / FP	GRN / GND	RED / FP
AC Single Phase Finger Proof	ASMFP30-1X3-KEW	ASMFV45-1X3-KEW	ASMFR45-1X3-KEW	BLK / FP	GRN / GND	WHT / FP

#### Two Row 2x1 Assemblies

Circuit Description	Housings with 45A Vertical Housings Only PCB Contacts		Housings with 45A Right Angle PCB Contacts	Color & Type Position Matrix		
Minimum Quantity	500	500	500	1	2	
DC 2 Wire Finger Proof	ASMFP30-2X1-KR	ASMFV45-2X1-KR	ASMFR45-2X1-KR	BLK / FP	RED / FP	
DC 2 Wire Finger Proof Mate	ASMFP30-2X1-RK	ASMFV45-2X1-RK	ASMFR45-2X1-RK	RED / FP	BLK / FP	

#### Two Row 2x2 Assemblies

		Housings with	Housings with				
		45A Vertical	45A Right Angle		Color	& Type	
Circuit Description	Housings Only	PCB Contacts	PCB Contacts		Positio	n Matrix	
Minimum Quantity	500	500	500	1	2	3	4
AC 3 Phase, 3 Wire Finger Proof	ASMFP30-2X2-KRWE	N/A	N/A	BLK / FP	RED / FP	WHT / FP	GRN / GND
AC 3 Phase, 3 Wire Finger Proof Mate	ASMFP30-2X2-WEKR	ASMFV45-2X2-WEKR	ASMFR45-2X2-WEKR	WHT / FP	GRN / GND	BLK / FP	RED / FP



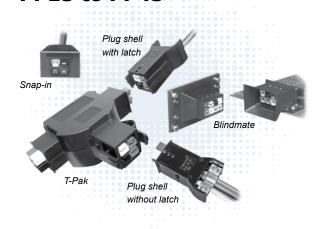


Two Row 2x1 Assembly



Two Row 2x2 Assembly

# Powerpole® Pak Connectors - PP15 to PP45



Powerpole® Pak connector shells enclose stacked groupings of PP15-45 sized housings in a durable black shell for a finished connector appearance and additional features. Inline, panel mount, and blindmate configurations are available. Plug shells offer the option of integral latches and strain relief to help secure your connection.

Package Groupings of PP15-45 Connectors

Provides a finished appearance while protecting the individual connectors with an outer shell

- Inline, Panel Mount, "T" or Blindmate Configurations
  Allows one connection system to meet multiple needs
- Optional Latching and Strain Relief
   Secures your connection and wires

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



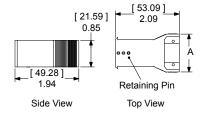
# | Powerpole® Pak ORDERING INFORMATION |

Powerpole® housings and contacts are sold separately. See page 20 for ordering information.

#### Plug Shell without Latch

Can mate inline with other plug shells with or without latches, or mate to a panel mount receptacle. For use with Powerpole® wire connectors only. Cable Clamp and Hardware Pak or Retaining Pins must be ordered separately.

Description	Pa	Part Numbers				
Minimum Quantity	1,000	500	25			
Black, 2-4 Poles	1461G1-BK	-	1461G1	1.24	31.50	
Black, 5-6 Poles	-	1461G2-BK	1461G2	1.56	39.62	
Black, 7-8 Poles	-	1461G3-BK	1461G3	1.87	47.50	



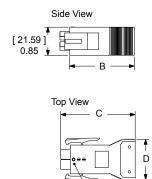
NOTE: Retaining pins are used to secure and position Powerpoles® in one of three positions in plug shells.

Max wire O.D. for 2-4 pole plug shells is 0.60 inches [15.2mm²]. For all other plug shells is 0.63 inches [16.0 mm²].

#### Plug Shell with Latch

Can mate inline with other plug shells without latches, or mate to a panel mount receptacle. For use with Powerpole® wire connectors only. Cable Clamp and Hardware Pak or Retaining Pins must be ordered seperately.

				Dimensions					
				- B	-	- C	) -	- C	) -
Description	Pa	rt Numbers		inches	mm	inches	mm	inches	mm
Minimum Quantity	1,000	500	25						
Black, 2-4 Poles	1460G1-BK	-	1460G1	1.94	49.28	2.25	57.15	1.24	31.50
Black, 5-6 Poles	-	1460G2-BK	1460G2	1.94	49.28	2.25	57.15	1.56	39.62
Black, 7-8 Poles	-	1460G3-BK	1460G3	1.94	49.28	2.25	57.15	1.87	47.50
Black, 9-10 Poles	-	1460G4-BK	1460G4	2.51	63.75	2.82	71.63	1.84	46.74

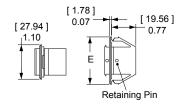


Retaining Pin

#### **Snap-in Receptacle Shell**

Mate to plug shells without latches, or mate to another panel mount receptacle to create a bulkhead to bulkhead connection. For use with Powerpole® wire or PCB connectors. Order the number of retaining pins for each receptacle as shown below separately.

				Number of	Dimens	sions	Knock C	Out Size
				Retaining Pins	- E	-	- Wid	th -
Description	Pa	art Numbers		to Order	inches	mm	inches	mm
Minimum Quantity	1,000	500	25					
Black, 2-4 Poles	1470G1-BK	-	1470G1	1	1.50	38.10	1.25	31.75
Black, 5-6 Poles	-	1470G2-BK	1470G2	2	1.88	47.75	1.62	41.15
Black, 7-8 Poles	-	1470G3-BK	1470G3	3	2.13	54.10	1.88	47.75
Black, 9-10 Poles	-	1470G4-BK	1470G4	4	2.44	61.98	2.19	55.63

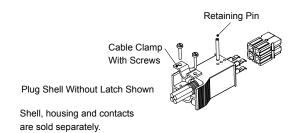


NOTE: Retaining pins are used to secure and position Powerpoles® in one of two positions in receptacle shells.

#### Cable Clamp & Hardware Pak

Includes cable clamp, 2 screws, and required amount of retaining pins for each configuration.

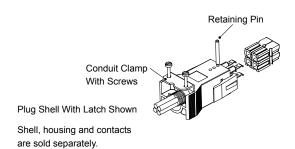
	Screw Head	Cable			
Description	Туре	Type	Pa	rt Numbers -	
Minimum Qua	antity		1,000	500	25
2-4 Poles	Straight Slot	Bundled	115G1-BK	-	115G1
5-6 Poles	Straight Slot	Bundled	115G2-BK	-	115G2
7-8 Poles	Straight Slot	Bundled	115G3-BK	-	115G3
9-10 Poles	Straight Slot	Bundled	-	115G4-BK	115G4
2-4 Poles	Philips	Bundled	115G7-BK	-	115G7
5-6 Poles	Philips	Bundled	115G8-BK	-	115G8



#### Flexible Conduit Clamp & Hardware Pak

Includes cable clamp, 2 screws, and need amount of retaining pins for each configuration.

Description	Part Number			
Minimum Quantity	100			
2-4 Poles	110G10			



#### **Retaining Pin for Snap-in Receptacle**

Order the number of retaining pins for each receptacle shown in the Snap-in Receptacle Shell ordering information. Pins are also required for the plug side when the Cable Clamp & Hardware Pak is not ordered.

Description	Part Nun	nber
Minimum Quantity	1,000	100
Retaining Pin	110G9-BK	110G9





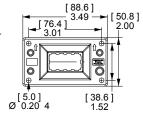
Shell and housing are sold separately.

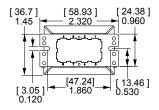
<sup>\*</sup> Height = [25.4 mm] 1.0 in.

#### **Blindmate Pak Connector**

Ideal for panel to panel, bulkhead to bulkhead, or rack mount applications that require the power connector to compensate for up to 0.45 in. [11.43 mm] of misalignment in either axis. Eight positions can be filled with Powerpole® 10-45 connectors. The receptacle side can be used with wire or PCB contacts. Hardware bag includes retaining pins.

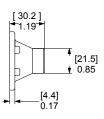
Description	Part	Numbers
Minimum Quantity	50	25
2x4 Blindmate Plug Shell, Hardware & Pins	-	BMPP10-45P
2x4 Blindmate Receptacle Shell, Hardware & Pins	-	BMPP10-45R
2x4 Blindmate Plug Shell	BMHSG-P	-
2x4 Blindmate Receptacle Shell	BMHSG-R	-
Hardware Bag Plug Side	-	110G50
Hardware Bag Receptacle Side	-	110G51

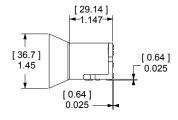




Plug Outline

Receptacle Outline





See APP®'s innovative MARC Connector that offers straight-on or rotational blindmate capability. MARC holds 6 PP15/45 power contacts and 2 PP15/45 premate ground contacts in a high temperature housing. Visit our website, <a href="https://www.andersonpower.com">www.andersonpower.com</a> to learn more.



#### "T" Pak 2 Way Splitter

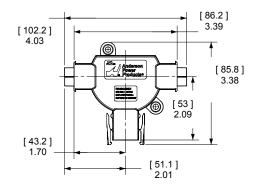
The Powerpole® "T" Pak connector is a 2 way electrical splitter that splits electrical current from one incoming circuit into two outgoing circuits. The standard configuration is pre-wired for AC 3 phase, 3 wire plus ground configurations. The "T" Pak can also be used for AC single phase plus ground or DC 2 wire plus ground applications by not using either the red or white power positions. "T" Pak is pre-wired from the factory allowing plug and play field installation of modular office and industrial equipment. UL recognition up to 20 amps and 600 volts is achieved when mating Powerpole® Pak plugs are used with #12 AWG wire.

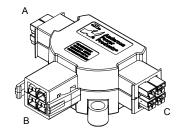
For OEM manufacturing scale applications, the "T" Pak can be loaded with custom configurations of any of APP®'s finger proof, standard, or ground housings and contacts in the PP15-45 series. Contact APP® sales or customer service for additional information.

Description	- Part Numbers -
Minimum Quantity	80
Assembled "T" Pak	20-01
Mating Plug Shell with Latch 2x	2 26-01
Mating Plug Shell without Latch	2x2 27-01

Standard configuration for each side of the T includes (1) each Red, Black, and White Standard PP 15-45 Housings & 261G2-LPBK contacts with (1) 45A Green Premate Ground Housing and 1830G1-LPBK contact.

Mating plug shells include (1) each Red, Black, and White Standard PP 15-45 Housings & (3) 261G2-LPBK contacts with (1) 45A Green Premate Ground Housing and 1830G1-LPBK contact. Cable clamp & hardware pak also included.







# | PP15-45 & POWERPOLE® PAK SPECIFICATIONS |

Electrical		
Current Rating Amperes <sup>1</sup>	UL 1977	CSA/TUV
Singlepole Wire to Wire (10 AWG)	55	40
Singlepole Ground Wire to Wire or PCB (10 AWG)	45	35
3x3 Block Wire to Wire (10 AWG)	40	27
Singlepole 25A PCB to Wire (12 AWG)	25	-
2x3 Block 25A PCB to Wire (12 AWG)	25	22 *
Singlepole 45A PCB to Wire (10 AWG)	45	40 *
2x3 Block 45A PCB to Wire (10 AWG)	45	25 *
Voltage Rating AC/DC		
UL 1977	600	
PCB Connector Recommended Voltage <sup>3</sup>		
per IEC 60950-1 Table 2L Pollution Degree <sup>2</sup>		
25A Contacts Adjacent Poles	495	
25A Contacts Separated by Spacer	1,000	
45A Contacts Adjacent Poles	160	
45A Contacts Separated by Spacer	970	
Dielectric Withstanding Voltage		
Volts AC	2,200	
Avg. Mated Contact Resistance Milliohms <sup>1</sup>		
15A Wire Contact with 5/8" of #16 AWG	0.875	
30A Wire Contact with 5/8" of #12 AWG	0.600	
45A Wire Contact with 5/8" of #10 AWG	0.525	
45A PCB Contact to Contact	0.500	
25A PCB Contact to Contact	0.600	
UL Hot Plug Current Rating Amperes		
250 cycles at 72V DC	45A	
250 cycles at 120V DC	30A	

UL	Grouna	Snort	ııme	Current	iest - 45A	Premate	Grouna

750 Amps, #10 AWG Wire 4 Seconds 470 Amps, #12 AWG Wire 4 Seconds

 _	te	 _	-

Housing
---------

Plastic Resin Polycarbonate Contact Retention Spring Stainless Steel

#### Housing Flammability Rating

UL94 V-0

#### Contact

Base Copper Alloy Plating Tin or Silver

#### **Contact Termination Methods**

Crimp<sup>3</sup> Wire Contacts Hand Solder Wire and PCB Contacts Solder Dip **PCB Contacts** Wave Solder **PCB** Contacts

Mechanical		
Wire Size Range	AWG	mm²
	20 to 10	0.5 to 6.0
Max. Wire Insulation Diameter	in.	mm
	0.175	4.450
Operating Temperature <sup>2</sup>	°F	°C
Powerpole® Housings & Powerpole® Pak Shells	-4° to 221°	-20° to 105°
Mating Cycles No Load by Plating	Silver (Ag)	Tin (Sn)
PCB to Wire	-	1,500
Wire to Wire	10,000	1,500
Avg. Mating / Unmating Force	Lbf.	N
Low Force Wire, High Force PCB, & Ground	3	13
High Force Wire	5	22
Low Force PCB	2	9
Min. Contact / Spring Retention Force	Lbf.	N
	20	90
Powerpole® Pak Latch Avg. Defeat Force	Lbf.	N
rowerpole Fak Latell Avg. Deleat Force	150	667
	100	007
PCB Specifications		
Mounting Style	Plated Through Hole	
PCB Thickness- in. [mm]	0.090 - 0.150	(2.3-3.8)
25A PCB Recommended Traces	#12 AWG Cross Section	/
45A PCB Recommended Traces	#10 AWG Cross Section	
Min. Creepage / Clearance Distance PCB	in.	mm
25A Creepage & Clearance Adjacent Poles	0.201	5.1
45A Creepage & Clearance Adjacent Poles	0.067	1.7

#### Protection

#### Touch Safety with Finger Proof Housings & Wire Contacts or PCB Mating Interface

UL1977 Sec. 10.2 Pass IEC 60950 Pass IEC 60529 IP20

#### Touch Safety Standard Housings

IEC 60529

- \* No TUV Recognition
- <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.
- <sup>2</sup> Limited by the thermal properties of the connector plastic housing.
- <sup>3</sup> Use APP® recommended tooling only. Alternate tools may adversely affect the performance of our connectors along with UL and CSA recognition.



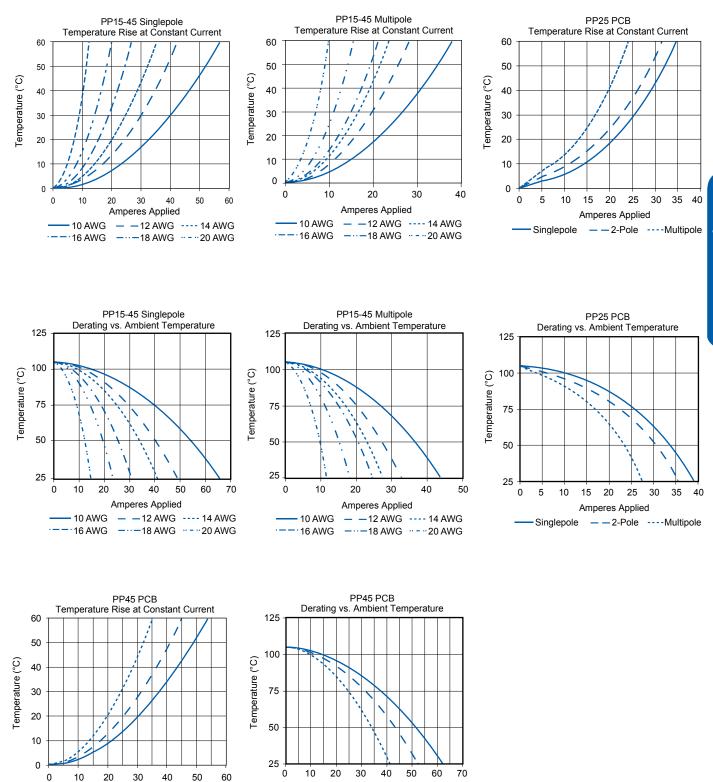








### | PP15-45 TEMPERATURE CHARTS |



NOTE: Temperature rise charts are based on a 25°C ambient temperature. PP25 PCB charts based on 0.002 in² foil on board side, mated to #12 AWG conductor on wire side. PP45 PCB charts based on #10 AWG equivalent copper foil on board side, mated to #10 AWG conductor on wire side.

Amperes Applied

Singlepole — 2-Pole ----Multipole

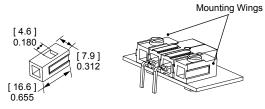
Amperes Applied
Singlepole — 2-Pole ----Multipole

# | Powerpole® 15-45 Accessories |

#### **Mounting Wing**

Secure dovetailed Powerpole® 15-45 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.

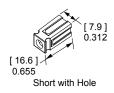
Description	Part Nu	mbers
Minimum Quantity	2,500	100
Red	1399G9-BK	1399G9
Blue	1399G8-BK	1399G8

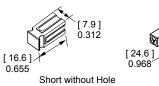


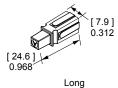
#### **Spacer**

Used to separate housings under high power to minimize derating. They are recommended for squaring off a block of Powerpole® 15-45 housings for use in connector shells and mounting clamps. Use a combination of long and short spacers opposite eachother in a mated block to add keying features or use two short spacers to avoid interference. Spacers with holes can also be used to fasten the blocked housings to a surface with a fastener.

Description	Part Num	bers
Minimum Quantity	2,500	100
Red, Short w/ Hole	1399G1-BK	1399G1
Red, Long	1399G2-BK	1399G2
Red, Short	1399G6-BK	1399G6
Black, Long	1399G10-BK	1399G10
Blue, Short	1399G13-BK	1399G13
White, Short w/ Hole	1399G14-BK	1399G14
White, Long	1399G17-BK	1399G17



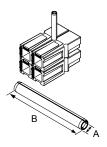




#### **Retaining Pins**

Keep stacked Powerpole® 15-45 series housings from separating. Retaining pins are inserted in the circular opening between two housings stacked side by side.

			Dimensions				
			- A -		- E	3 -	
Description	Part Numbers		inches	mm	inches mm		
Minimum Quantity .	1,000	100					
1 Block High	H1507P38	110G16	0.094	2.390	0.250	6.350	
2 Block High	111812P5	110G17	0.099 / 0.106	0.251 / 2.69	0.440	11.180	



#### **Mounting Clamp**

Mounting clamps can be used for fastening a block of Powerpole® 15-45 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 .	100 sets of 2
2 or 4 Pole	1462G1
3 or 6 Pole	1462G2
4 or 8 Pole	1462G3







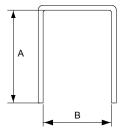


3 or 6 Pole

#### **PCB Mounting Staples**

PCB staples are soldered into place to secure Powerpole® 15-45 series housings in a horizontal configuration to the board. Reduce strain on soldering joints during mating and unmating.

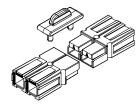
				Dime	ensions	
Part			- A		- B	3 -
Numbers	$H \times W$	Length	inches	mm	inches	mm
Minimum Qu	uantity 10	00				
114555P1	1 x 1	Short	0.47	12.0	0.28	7.0
114555P2	1 x 2	Short	0.47	12.0	0.57	14.5
114555P11	1 x 2	Long	0.67	17.0	0.57	14.5
114555P3	1 x 3	Short	0.47	12.0	0.89	22.5
114555P7	1 x 4	Short	0.47	12.0	1.20	30.5
114555P12	1 x 4	Long	0.67	17.0	1.20	30.5
114555P8	1 x 6	Short	0.47	12.0	1.83	46.5
114555P13	2 x 2	Long	0.91	23.0	1.83	46.5
114555P10	2 x 1	Short	0.79	20.0	0.28	7.0
114555P6	2 x 2	Short	0.79	20.0	0.57	14.5
114555P9	5 x 2	Long	0.91	23.0	0.57	14.5
114555P14	2 x 5	Long	0.91	23.0	1.52	38.5
114555P4	3 x 2	Short	1.10	28.0	0.57	14.5



#### **Retention Clip**

Retention clips prevent Powerpole® 15-45 blocks from unintended disconnects. They feature a tab for easy insertion and removal.

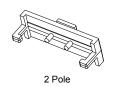
Description	Part Number
Minimum Quantity .	100
1 Block High	110G68

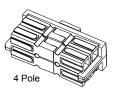


#### **Block Lok**

Block locks secure mated Powerpole® 15-45 series housings together. For use in high vibration or shock applications where connectors are unmated infrequently.

Description	- Part Numbers -
Minimum Quantity	100
2 Pole, Black	110G21
4 Pole, Black	110G12





Shown without Powerpoles®

Shown with Powerpoles®

#### **Splash Boot**

Splash boots protect a 2x2 block of any combination of Powerpole® 15-45 series housings and feature snip off sealed ends for flexibility in wire O.D. Designed for through panel or inline applications. Not a hermetic seal.

Description	- Part Numbers -
Minimum Quantity	25
Female, Black	1441G1
Male, Black	1442G1



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



# Powerpole® - Tooling Information

Wire	Size	Loose Piece	Part Numbers	Loc	se Piece	Contac	t Crimp	Tool	Reeled Par	t Numbers	Reeled Co	ontact Cri	mp 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	1307 01				IW/A	IN/A	IW/A	IN/A	IN/A		
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	1309G6 or					200G1L	200G3L	1385460-1			
10 / 14	6.0 / 2.1	201G1H-LPBK	201G3H-LPBK	or					201G1H	201G3H	1385460-1				
10 / 14	6.0 / 2.1	1830G1-LPBK	1830G2-LPBK	1309G8					1830G1	1830G2	1385460-1				
							PP75								
#6	13.3		1307												
#0	10.0		5900			1388G6			265G5		1385523-1	2-565435-2	692655-1		
#8	8.4	N/A	5952	1309G4			1389G6	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	1387G1	1368 1387G1		1389G4	Single	N	N/A	N/A		
#4	21.2		1319G4			1388G4									
#6	13.3		1319G6												
		I					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							
π0	10.0		10-10		.00.01	. 30001	.55555	59.0							

<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.

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