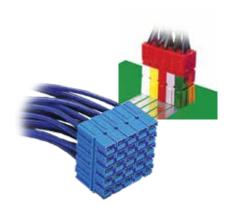


Powerpole® Connectors PP15/45 - Up to 55 Amps



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 to 10 AWG (0.75 to 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 the 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

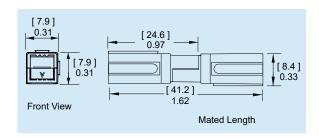
PP15/45 ORDERING INFORMATION

PP15/45 Finger Proof Housings

Improved on the original 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			

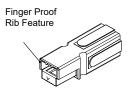
Finger Proof, Standard & Ground Housing Dimensions



PP15/45 Standard Housings

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

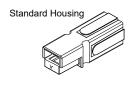




PP15/45 Chemiacal Resistant (CR) Housings

Has the same form and dimensions of the standar PP15/45 housing in a chemical resistant PBT / PC blend housing.

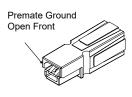
Description	Part Numbers
Minimum Quantity Red	2,500 P1327-BK
Gray	P1327G18-BK
Black	P1327G6-BK
Black	P1327G6FP
Black	P1327G6FP-BK
White	P1327G7-BK



45A Premate Ground Housings - for use with ground contacts only

Will mate with standard Powerpole® housings.

Description	Part Numbers		
Minimum Quantity	2,500	200	
Green	1827G1-BK	1827G1	



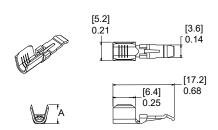
PP15/45 Tin Plated Power Contacts

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

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

K $^{\star}\,$ - For #10 AWG class K stranded wire or smaller. For larger wires use superflex contacts.

Open Barrel Contact





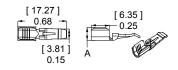
Maximize performance by offering up to 10,000 mating cycles and are recommended for circuit interrupt or hot plug applications. See specifications and temperature charts for amperage ratings by wire size. Only closed barrel contacts are suitable for soldering.

								Dimen		
			Mating	Loo	se Piece	Reeled	- /	4 -	- B	-
Barrel	AWG	mm²	Force	Part	Numbers	Part Numbers	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 3	[*] 2.1 to 6.0	Low	-	200G3L-LPBK	200G3L	0.24	6.10	-	-
Open	20 to 16	0.52 to 1.3	Low	-	262G2-LPBK	262G2	0.16	4.06	-	-
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

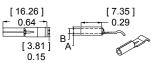
K * - For #10 AWG class K stranded wire or smaller. For larger wires use superflex contacts.

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

Open Barrel Contact



Closed Barrel Contact

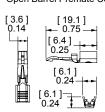


45A Premate Ground Wire Contacts - for use with ground housing only

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.

Туре	AWG	mm²	Mating Force	Loose Piece Part Numbers	Reeled Part Numbers
Minimum Qua	antity			200	2,500
Open, Tin Open, Silver	14 to 10 14 to 10	2.1 to 6.0 2.1 to 6.0	Low Low	1830G1-LPBK 1830G2-LPBK	1830G1 1830G2

Open Barrel Premate Contact

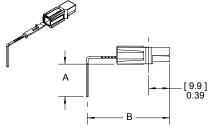


SF*- Indicates wires with high stranding such as Super Flex.

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

					Dime	nsions	
	Mating	Loose F	Piece	- A	۸ -	- B	3 -
Row	Force	Part Nu	mbers	inches	mm	inches	mm
Minimur	m Quantity	1,000	100				
Тор	Low High	1377G1-BK 1317G1-BK	1377G1 1317G1	0.58	14.80	1.52	38.60
Bottom	Low High	1377G2-BK 1317G2-BK	1377G2 1317G2	0.29	7.20	1.36	34.50
Тор	Low High	1377G11-BK 1317G11-BK	1377G11 1317G11	0.58	14.80	1.21	30.70
Bottom	Low High	1377G12-BK 1377G12-BK 1317G12-BK	1377G12 1317G12	0.29	7.20	1.01	25.70

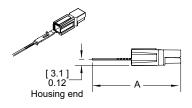


- Use mounting staples with right angle contacts (see accessories).
- See website for PCB layout drawing.

25A Vertical PCB Contacts Tin Plated

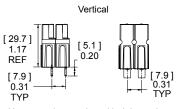
For mating with wire contacts only. Suitable for vertical applications up to 25A per pole, tin plating enhances solderability.

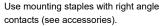
Mating Force	Loose Pi Part Num	Dimensions - A - inches mm		
Minimum Quantity Low High Low High Low High	1,000 1377G3-BK 1317G3-BK 1377G4-BK 1317G4-BK 1377G13-BK 1317G13-BK		2.22 2.22 1.76 1.76 1.17 1.17	56.40 56.40 44.70 44.70 29.70 29.70

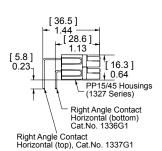


45A Right Angle and Vertical PCB Contacts Tin PlatedSuitable for right angle or vertical applications up to 45A per pole. Tin plating enhances solderability. Right angle contacts cannot be mixed with 25A PCB contacts. For mating with wire contacts only.

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



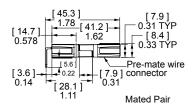




45A Premate Ground PCB Contacts

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		
Description	Force	Part Numbers		
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 Anderson™ 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

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

Single Row 1x3 Assemblies

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

Two Row 2x1 Assemblies

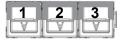
Circuit Description	Housings Only	Housings with 45A Vertical PCB Contacts	Housings with 45A Right Angle PCB Contacts	Color & Position	21
Minimum Quantity DC 2 Wire Finger Proof DC 2 Wire Finger Proof Mate	500	500	500	1	2
	ASMFP30-2X1-KR	ASMFV45-2X1-KR	ASMFR45-2X1-KR	BLK / FP	RED / FP
	ASMFP30-2X1-RK	ASMFV45-2X1-RK	ASMFR45-2X1-RK	RED / FP	BLK / FP

Two Row 2x2 Assemblies

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



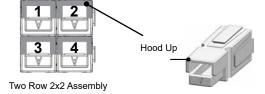
Single Row 1x2 Assembly



Single Row 1x3 Assembly



Two Row 2x1 Assembly



Type

STD = Standard Housing

FP = Finger Proof Housing

GND = Ground Housing

Powerpole® Pak Connectors PP15/45



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.

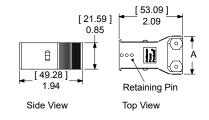
- Package Groupings of PP15/45 Connectors
 Provides a finished appearance while protecting the individual connectors with an outer shell
- Inline, Panel Mount, "T" or Blindmate Configurations
 Allows one connection system to meet multiple needs
- Optional Latching and Strain Relief Secures your connection and wires

POWERPOLE® PAK ORDERING INFORMATION - Powerpole® housings and contacts are sold separately

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 all Powerpole® 15/45 connectors only. Cable Clamp and Hardware Pak or Retaining Pins must be ordered separately.

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



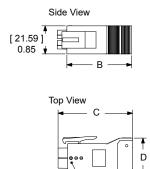
NOTE: Retaining pins are used to secure and position
Powerpole* housings in one of three positions in plug shells.

Max wire O.D. for 2 to 4 pole plug shells is 0.60 inches (15.2 mm²). 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 separately.

	Dimensions								
				- B	-	- 0) -	- D	-
Description	Р	art Numbers		inches	mm	inches	mm	inches	mm
Minimum Quantity	1,000	500	25						
Black, 2 to 4 Poles	1460G1-BK	-	1460G1	1.94	49.28	2.25	57.15	1.24	31.50
Black, 5 to 6 Poles	-	1460G2-BK	1460G2	1.94	49.28	2.25	57.15	1.56	39.62
Black, 7 to 8 Poles	-	1460G3-BK	1460G3	1.94	49.28	2.25	57.15	1.87	47.50
Black, 9 to 10 Poles	-	1460G4-BK	1460G4	2.51	63.75	2.82	71.63	1.84	46.74

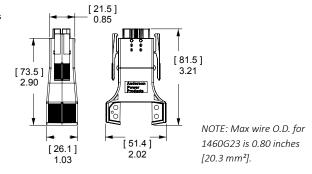


Retaining Pin

Plug Shell With Latch & Non-Conductive Strain Relief

New 2X3 Powerpole® Pak offers an improved ergonomic shell for easier latch operation as well as a plastic, non-conductive strain relief. The new strain relief can accommodate up to a 6 conductor 10 AWG cable. Can 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. To be used with 115G23 cable clamp only.

Description	Part Num	nbers
Minimum Quantity	1,000	25
Black, 5 to 6 Poles	1460G23-BK	1460G23

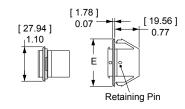


Snap-in Receptacle Shell

Mate to plug shells with or 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.

		r						
Description	Dev	t Numbers		Number of Retaining to Order	Dimens - E inches	-	Knock O - Wid	lth -
Description	Par	Livumbers		to Order	inches	mm	inches	mm
Minimum Quantity	1,000	500	25					
Black, 2 to 4 Poles	1470G1-BK	-	1470G1	1	1.50	38.10	1.25	31.75
Black, 5 to 6 Poles	-	1470G2-BK	1470G2	2	1.88	47.75	1.62	41.15
Black, 7 to 8 Poles	-	1470G3-BK	1470G3	3	2.13	54.10	1.88	47.75
Black, 9 to 10 Poles	s -	1470G4-BK	1470G4	4	2.44	61.98	2.19	55.63

^{*} Height = (25.4 mm) 1.0 in.

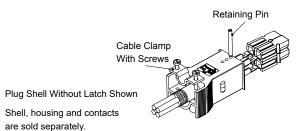


NOTE: Retaining pins are used to secure and position Powerpole® housings in one of two positions in receptacle shells.

Cable Clamp & Hardware Pak

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

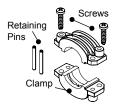
Screw	Cable			
Head Type	Type	Pa	rt Numbers	
ntity		1,000	500	25
Straight Slot	Bundled	115G1-BK	-	115G1
Straight Slot	Bundled	115G2-BK	-	115G2
Straight Slot	Bundled	115G3-BK	-	115G3
Straight Slot	Bundled	-	115G4-BK	115G4
Phillips	Bundled	115G7-BK	-	115G7
Phillips	Bundled	115G8-BK	-	115G8
	Head Type httity Straight Slot Straight Slot Straight Slot Straight Slot Straight Slot Phillips	Head Type Type httity Straight Slot Bundled Phillips Bundled	Head Type Type 1,000 Straight Slot Bundled 115G1-BK Straight Slot Bundled 115G2-BK Straight Slot Bundled 115G3-BK Straight Slot Bundled - Phillips Bundled 115G7-BK	Head Type Type Part Numbers 1,000 500 Straight Slot Bundled 115G1-BK - Straight Slot Bundled 115G2-BK - Straight Slot Bundled 115G3-BK - Straight Slot Bundled - 115G4-BK Phillips Bundled 115G7-BK -



Cable Clamp & Hardware Pak

Includes 2 cable clamp halves, 2 screws and 2 retaining pins. To be used with 1460G23 Plug Shell only.

	Screw	Cable		
Description	Head Type	Type	Part Nun	nbers
Minimum Qua	antity Phillips	Bundled	1,000 115G23-BK	25 115G23



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 to 4 Poles 110G10

Conduit Clamp With Screws Shell, housing and contacts are sold separately.

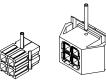
Plug Shell With Latch Shown

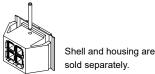
Retaining Pin

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.

DescriptionPart NumbersMinimum Quantity1,000100Retaining Pin110G9-BK110G9

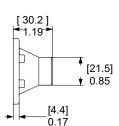


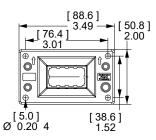


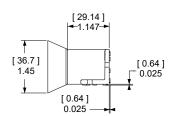
Blindmate Pak Connector

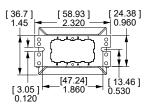
Ideal for panel to panel, bulkhead to bulkhead, or rack mount applications that require the power connector to compensate for up to 0.45 in. (11.43 mm) of misalignment in either axis. Eight positions can be filled with Powerpole® 10 to 45 connectors. The receptacle side can be used with wire or PCB contacts.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

Description	Part Nu	mbers
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









See our 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 www.andersonpower.com to learn more.



"T" Pak 2 Way Splitter

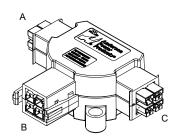
The Powerpole® "T" Pak connector is a 2 way electrical splitter that splits electrical current from one incoming circuit into two outgoing circuits. The standard configuration is pre-wired for AC 3 phase, 3 wire plus ground configurations. The "T" Pak can also be used for AC single phase plus ground 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 with 12 AWG wire.

For OEM manufacturing scale applications, the "T" Pak can be loaded with custom configurations of any of our finger proof, standard, or ground housings and contacts in the PP15/45 series. Contact sales or customer service for additional information.

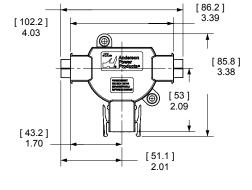
Description	Part Numbers
Minimum Quantity	80
Assembled "T" Pak	20-01
Mating Plug Shell with Latch 2x2	26-01
Mating Plug Shell without Latch 2x2	27-01

Standard configuration for each side of the T includes (1) each Red, Black, and White Standard PP15/45 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 PP15/45 Housings & (3) 261G2-LPBK contacts with (1) 45A Green Premate Ground Housing and 1830G1-LPBK contact. Cable clamp & hardware pack also included.



27 - 01 Mates With B

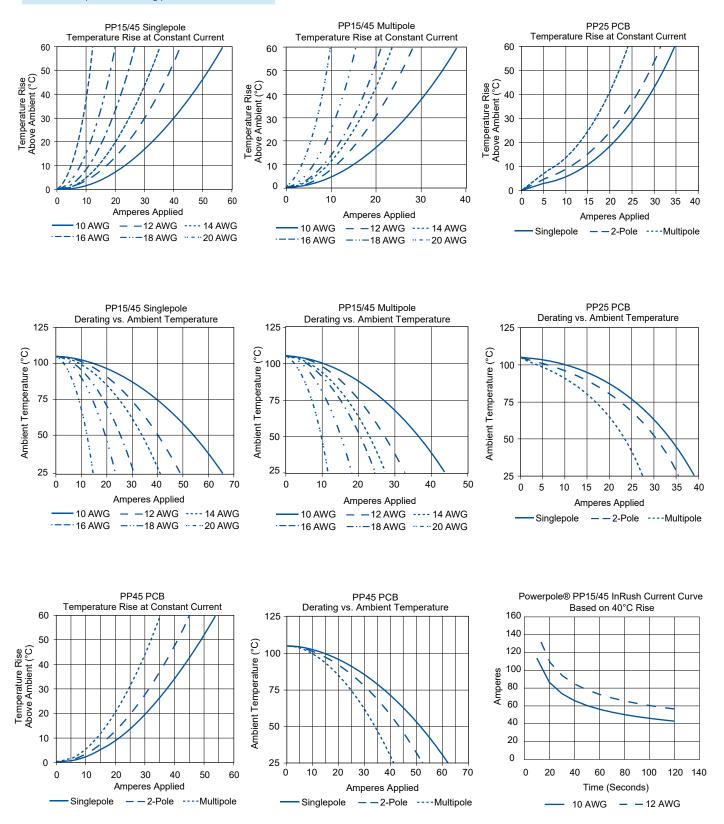




26 - 01 Mates With A & C

PP15/45 CONNECTOR TEMPERATURE CHARTS - Temperature rise charts are based on a 25°C ambient temperature.

Current - Temperature Derating per IEC 60512-5-2 Test 5B



NOTE: 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.

PP15/45 & POWERPOLE® PAK SPECIFICATIONS

Current Rating Amperes ¹	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	
Dielectric Withstanding Voltage		
Volts AC	2,200	
Avg. Mated Contact Resistance Milliohms ¹		
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 5		
250 Cycles at 72V DC	45A	
250 Cycles at 120V DC	30A	
UL Ground Short Time Current Test - 45A Premate Gr	ound	
750 Amps, 10 AWG Wire	4 Seconds	
470 Amps, 12 AWG Wire	4 Seconds	

MATERIAL	
Housing	
Plastic Resin	Polycarbonate
Contact Retention Spring	Stainless Steel
Housing Flammability Rating	
UL94	V-0
Glow Wire	825°C (GWFI) / 800°C (GWIT)
Contact	
Base	Copper Alloy
Plating	Tin or Silver
Contact Termination Methods	
Crimp ³	Wire Contacts
Hand Solder	1331, 1332 & PCB Contacts
Solder Dip	PCB Contacts
Wave Solder	PCB Contacts









MECHANICAL		
Wire Size Range	AWG	mm²
	20 to 10	0.75 to 6.0
Max. Wire Insulation Diameter	in.	mm
	0.175	4.450
Operating Temperature ²	°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	Lbf.	N
Avg. Defeat Force	150	667
PCB Specifications		
Mounting Style	Plated Through	Hole
PCB Thickness - in. (mm)	0.090 to 0.150	2.3 to 3.8
25A PCB Recommended Traces	12 AWG Cross S	Section
45A PCB Recommended Traces	10 AWG Cross S	Section
Mechanical Shock ⁴		
MIL-STD-202	213 Condition A	50g′s
Vibration High Frequency ⁴		
MIL-STD-202	204 Condition A	10g's

NOTE 1: See IEC 60664-1 for working voltage.

NOTE 2: Amp ratings are stated per position and based on all positions being fully loaded.

- * No TUV Recognition
- 1 Based on: 105°C rated or better cable of the largest size.

 Properly calibrated Anderson Power™ 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.
- 2 Limited by the thermal properties of the connector plastic housing.
- 3 Use Anderson Power™ recommended tooling only. Alternate tools may adversely affect the performance of our connectors along with UL and CSA recognition.
- 4 Tested with contact part number 261G2.
- 5 Based on 2 housings blocked together.

IEC INFORMATION

Connector Series	Configurations		Creepage / Clearance per IEC 60950-1	Material Group
	Single Pole	Unmated	1.64 mm	
		Mated	1.64 mm	
	Stacked Powerpole®	Unmated	1.64 mm	
PP15/45		Mated	1.64 mm	
Standard	PCB - 25A	Unmated	1.64 mm	IIIa
		Mated	1.64 mm	
	PCB - 45A	Unmated	1.39 mm	
		Mated	1.39 mm	

Connector Series	Configurations		Creepage / Clearance per IEC 60950-1	Material Group
	Single Pole	Unmated	1.64 mm	
		Mated	4.20 mm	
	Stacked Powerpole®	Unmated	1.64 mm	
PP15/45		Mated	4.20 mm	IIIa
Finger Proof	PCB - 25A	Unmated	1.64 mm	IIId
		Mated	2.90 mm	
	PCB - 45A	Unmated	1.39 mm	
		Mated	1.39 mm	

ATTRIBUTES	PP45	PP45 FINGER PROOF
AMP Rating AC/DC	45	45
Voltage Rating AC/DC (Steady State)	160 V AC/DC (Operational)	400 V AC/DC (Operational)
Breaking Capacity - AMP Rating / Cycles	30 Amp / 10 Cycles	30 Amp / 10 Cycles
Voltage Rating (Breaking Capacity)	220 VDC	220 VDC
FINGER Safety - Mated Only	IEC 60529 - IP20	IEC 60529 - IP20 *
Wire Size Tested	6 mm²	6 mm² (10AWG)
Contact Series Tested	200G3L	200G3L
Climatic Testing (Cold, Heat & MFG)	IEC 60512 Test - 11j, 11i & 11g	IEC 60512 Test-11j, 11i & 11g
Cycle Life	IEC 60512 Test 9a - 5,000 Cycles	IEC 60512 Test 9a- 5,000 Cycles
Mechanical Strength Impact	IEC 60512-5 @ 29.5 Inches - Dropped 8 Times	IEC 60512-5 @ 29.5 Inches - Dropped 8 Times
Temperature Range	-20°C to 105°C	-20°C to 105°C
	-4°F to 221°F	-4°F to 221°F

^{*} Mated and unmated for the PP15/45 FP version only

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 With Standard Housings

IEC 60529 IP10

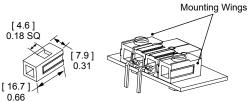


POWERPOLE® 15/45 ACCESSORIES

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.

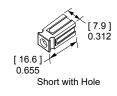
Description	Part Numbers		
Minimum Quantity	2,500	100	
Red	1399G9-BK	1399G9	
Blue	1399G8-BK	1399G8	

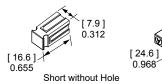


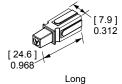
Spacer

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 each other 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.

Part Numb	pers
2,500	100
1399G1-BK	1399G1
1399G2-BK	1399G2
1399G6-BK	1399G6
1399G10-BK	1399G10
1399G13-BK	1399G13
1399G14-BK	1399G14
1000017 511	1399G17
	1399G1-BK 1399G2-BK 1399G6-BK 1399G10-BK 1399G13-BK



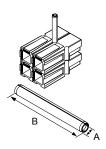




Retaining Pins

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 -		- B -	
Description	Part Nur	mbers	inches	mm	inches	mm
Minimum Quantity	1,000	100				
1 Block High	H1507P38	110G16	0.093 / 0.103	2.360 / 2.62	0.250	6.350
2 Block High	111812P5	110G17	0.093 / 0.103	2.360 / 2.62	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







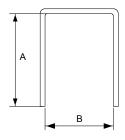


or 6 Pole 4 or 8 Pole

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.

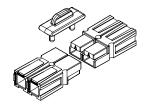
				Dime	ensions	
Part			- A	-	- B	3 -
Numbers	$H \times W$	Length	inches	mm	inches	mm
Minimum Qu	uantity 10	00				
114555P1	1 x 1	Short	0.47	12.0	0.28	7.0
114555P2	1 x 2	Short	0.47	12.0	0.57	14.5
114555P3	1 x 3	Short	0.47	12.0	0.89	22.5
114555P7	1 x 4	Short	0.47	12.0	1.20	30.5
114555P10	2 x 1	Short	0.79	20.0	0.28	7.0
114555P6	2 x 2	Short	0.79	20.0	0.57	14.5
114555P9	2 x 2	Long	0.91	23.0	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.

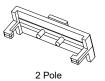
Description	Part Number
Minimum Quantity	100
1 Block High	110G68



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





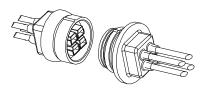
Shown without Powerpoles

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.

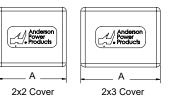
Description	Part Numbers
Minimum Quantity	25
Female, Black	1441G1
Male, Black	1442G1



Dust Cover for Powerpole® Pak

Protect your Powerpole® Pak connector from most foreign material and potentially prevent premature degradation of the product. Contact customer service for the other possible configurations.

Description	Part Numbers		Dimensions - A -		
Minimum Quantity 2x2, Orange	2,500 2-8831P1-BK	500 2-8831P1	1.32 (33.5)		
2x3. Orange	2-8831P2-BK	2-8831P2	1.42 (36.0)		





Powerpole[®]

Tooling Information - Anderson Power™ Applicators are Mechanical Feed Style and do not Require an Air Feed Kit.

Wir	e Size	Loose Piece	Part Number	r Loose Piece Contact Crimp Tools											
AWG	mm²	Tin Plating	Silver Plating	Hand Tool	OR	Pneumatic Bench Tool	+	Die	+	Locator	Number of Crimps	Insertion Extraction Tool			
	PP15 / 45 Flat Wiping Power & Ground														
16 to 20	1.3 to 0.52	N/A	1332	1309G2 or 1309G8											
12 to 16	3.3 to 1.3	N/A	1331		or										
16 to 20	1.3 to 0.52	262G1-LPBK	262G2-LPBK												
16 to 20	1.3 to 0.52	269G2-LPBK	N/A												
12 to 16	3.3 to 1.3	261G1-LPBK	N/A	1309G3 or 1309G8 1309G6 or 1309G8	or										
10 to 14	5.3 to 2.1	261G2-LPBK	261G3-LPBK				N/A		N/A		N/A	Single	111038G2		
12 to 16	3.3 to 1.3	269G1-LPBK	N/A												
10 to 14	5.3 to 2.1	269G3-LPBK	N/A												
10 to 14	5.3 to 2.1	200G1L-LPBK	200G3L-LPBK												
10 to 14	5.3 to 2.1	201G1H-LPBK	N/A												
10 to 14	5.3 to 2.1	1830G1-LPBK	1830G2-LPBK												

NOTE: see website for the most current information.

Wii	re Size	Reeled Pa	rt Number	Reeled Contact Crimp Tools				
AWG	mm²	Tin Plating Silver Plating Anderson Power™ Applicator		Anderson Power™ Applicator		Anderson Power™ Press		
PP15/45 Flat Wiping Power & Ground								
16 to 20	1.3 to 0.52	262G1	262G2					
16 to 20	1.3 to 0.52	269G2	N/A					
12 to 16	3.3 to 1.3	261G1	N/A	TD0101				
10 to 14	5.3 to 2.1	261G2	261G3	100101				
12 to 16	3.3 to 1.3	269G1	N/A			115V = TE0101 230V = TE0102		
10 to 14	5.3 to 2.1	269G3	N/A					
10 to 14	5.3 to 2.1	200G1L	200G3L					
10 to 14	5.3 to 2.1	201G1H	N/A	TD0102				
10 to 14	5.3 to 2.1	1830G1	1830G2					

NOTE: Loose piece PP15/45 should only be crimped using hand tools. Reeled PP15/45 contacts are to be crimped using appropriate press applicator and die.

All Data Subject to Change Without Notice 2024-0103 DS-PP1545 REV 8 Your Best Connection™

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