Parallel-groove connectors

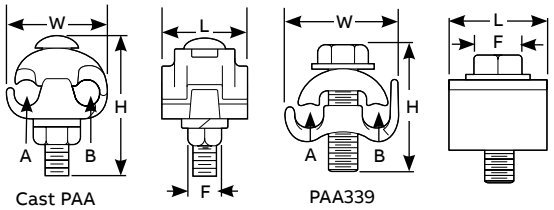
Aluminum parallel-groove clamps

PAA one- and two-bolt aluminum parallel-groove clamps

- Galvanized steel carriage bolt, nut and lockwasher included
- Dual-rated for use on aluminum, ACSR and copper conductors
- Available prefilled with oxide inhibitor to prevent oxidation on copper-to-aluminum connections

Standard Cat. no.	Prefilled Cat. no.	Conductor range (AWG or kcmil) Main ACSR	Main Al/Cu	Tap ASCR	Tap Al/Cu	Conductor diameter (in.) Main Max.	Main Min.	Tap Max.	Tap Min.	Dimensions (in.) F	H	L	W	Bolt size
–	PAA29	#2–#6	#2 str.–#6 sol.	#2–#6	#2 str.–#6 sol.	0.316	0.162	0.316	0.162	9/16	1 13/16	1 13/32	1 3/8	5/16
–	PAA339	1/0–#6	1/0 str.–#6 sol.	1/0–#6	1/0 str.–#6 sol.	0.398	0.162	0.398	0.162	9/16	1 9/16	1 1/4	1 1/2	3/8
PAA4	PAA49	1/0–#6	1/0 str.–#6 sol.	1/0–#6	1/0 str.–#6 sol.	0.398	0.162	0.398	0.162	9/16	2 7/32	1 3/16	1 1/2	3/8
PAA5	PAA59	1/0–#8	1/0 str.–#8 sol.	1/0–#8	1/0 str.–#8 sol.	0.398	0.128	0.398	0.128	9/16	2 7/32	1 11/32	1 1/2	3/8
PAA6	PAA69	1/0–#8	2/0 str.–#8 sol.	1/0–#8	2/0 str.–#8 sol.	0.414	0.128	0.414	0.128	9/16	2 7/32	1 3/8	1 5/8	3/8
PAA10*	PAA109	336.4–1/0, 1/0–#6 AR	400–1/0 str., 1/0–#6 AR	1/0–#8	1/0 str.–#8 sol.	0.741	0.368	0.398	0.128	9/16	2 15/32	2	1 3/4	3/8
PAA12	PAA129	4/0–#2	4/0 str.–#2 sol.	4/0–#2	4/0 str.–#2 sol.	0.563	0.258	0.563	0.258	3/4	2 1/4	2	2	1/2
PAA400†	PAA4009†	336.4–1/0, 1/0–#6 AR	400–1/0 str., 1/0–#6 AR	336.4–1/0	400–1/0 str.	0.741	0.368	0.741	0.368	3/4	3 1/4	3 3/4	2 1/2	1/2

Diagrams



Cast PAA PAA339

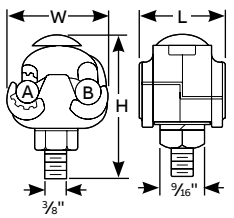
* RUS listed. † PAA400 and PAA4009 are two bolt clamps. AR = Over armor rod. Note: For hex-head bolt option, add "-3" suffix to the catalog number.

PAC Aluminum parallel-groove clamps with copper liner

- Pressure-cast aluminum body effectively seals out moisture and resists corrosion
- Clamp separates conductors to reduce the possibility of galvanic corrosion

Standard Cat. no.	Prefilled Cat. no.	Conductor range (AWG or kcmil) Main ACSR	Main Al	Tap Cu	Conductor diameter (in.) Main	Tap	Dimensions (in.) H	W	L
PAC345	PAC3459	1/0–#8	1/0 str.–#8 sol.	1/0 str.–#8 sol.	0.398–0.128	0.373–0.128	2 7/32	1 17/32	1 1/4
PAC7*	PAC79	336.4–1/0, 1/0–#6 AR	400–2/0 str., 1/0–#6 AR	1/0 str.–#8 sol.	0.741–0.398	0.373–0.128	2 15/32	1 5/8	1 7/8

Diagrams



* RUS Listed. Note: For hex-head bolt option, add "-3" suffix to the catalog number.

Parallel-groove connectors

PAE parallel-extruded type groove clamps

PAE parallel-extruded type groove clamps

- Galvanized steel hardware provides high strength for heavy-duty applications
- Install with live line tools you already have
- Dual-rated for aluminum-to-copper connections
- Prefilled with oxide inhibitor ("-9" suffix in chart) to prevent oxidation on copper-to-aluminum connections

			Conductor diameter											Galvanized aluminum	
	Conductor range (AWG or kcmil)		Main		Tap			Dimensions (in)							
Cat. no.	Main	Tap	Max.	Min.	Max.	Min.	Fig.	H	W	L	F	B	A	Steel bolt thd. size	Bolt thd. size
PAE-335-79	1/0 str.–#6 sol.	1/0 str.–#6 sol.	0.398	0.162	0.398	0.162	1	1 9/16	1 1/2	1 1/4	9/16	–	–	3/8–16 UNC	3/8–16 UNC
PAE-2121-9*	2/0 ACSR–#6 sol., #6 AR	2/0 ACSR–#6 sol., #6 AR	0.447	0.162	0.447	0.162	1	2	1 5/8	1 3/8	9/16	7/8	–	3/8–16 UNC	3/8–16 UNC
PAE-2121X-79	2/0 ACSR–#6 sol., #6 AR	2/0 ACSR–#6 sol., #6 AR	0.447	0.162	0.447	0.162	1	2	1 5/8	1 3/8	9/16	7/8	–	–	3/8–16 UNC
PAE-4141-9*	4/0 ACSR–#2 sol., #4–#6 AR	4/0 ACSR–#2 sol., #4–#6 AR	0.563	0.258	0.563	0.258	1	2	2	1 3/8	9/16	1/8	–	3/8–16 UNC	3/8–16 UNC
PAE-3921-9-2	397.5 ACSR–3/0 str., 2/0–#6 AR	2/0 str.–#6 sol., #6 AR	0.743	0.464	0.414	0.162	2	2 9/16	2 1/4	1 5/8	3/4	1 1/8	–	1/2–13 UNC	1/2–13 UNC
PAE-9941-9	1000–397.5 ACSR, 336.4–2/0 AR	4/0 ACSR–#2 sol., #4–#6 AR	1.152	0.743	0.563	0.258	3	21 3/16	25 9/64	2 1/4	3/4	–	–	1/2–13 UNC	1/2–13 UNC
PAE-3931-9-2	397.5 ACSR–3/0 str., 2/0–#6 AR	3/0 ACSR–2 str., #6 AR	0.743	0.464	0.502	0.292	4	2 9/16	2 5/16	3 3/8	3/4	–	1 3/4	1/2–13 UNC	1/2–13 UNC
PAE-3939-9-2	397.5 ACSR–3/0 str., 2/0–#6 AR	397.5 ACSR–3/0 str., 2/0–#6 AR	0.743	0.464	0.743	0.464	5	2 9/16	2 9/16	3 3/8	3/4	–	1 7/8	1/2–13 UNC	5/8–11 UNC
PAE-9921-9	1000–397.5 ACSR, 336.4–2/0 AR	2/0 str.–#6 sol., #6 AR	1.152	0.743	0.414	0.162	3	2 13/16	2 3/16	2 1/4	3/4	–	–	1/2–13 UNC	5/8–11 UNC
PAE-9939-9	1000–397.5 ACSR, 336.4–2/0 AR	397.5 ACSR–3/0 str., 2/0–#6 AR	1.152	0.743	0.743	0.464	4	2 13/16	3 7/64	3 1/2	3/4	–	1 1/2	1/2–13 UNC	5/8–11 UNC
PAE-9999-9	1000–397.5 ACSR, 336.4–2/0 AR	1000–397.5 ACSR, 336.4–2/0 AR	1.152	0.743	1.152	0.743	6	2 13/16	3 1/2	6	3/4	–	2	1/2–13 UNC	5/8–11 UNC

Diagrams

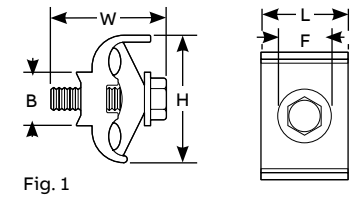


Fig. 1

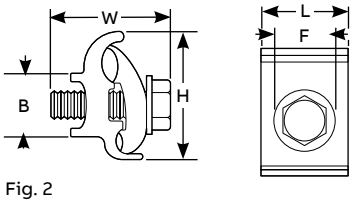


Fig. 2

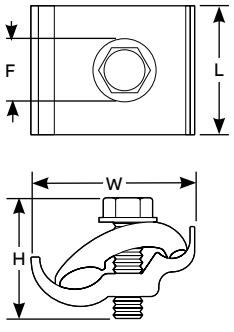


Fig. 3

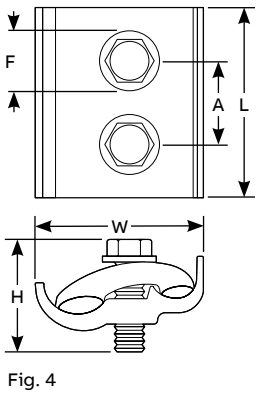


Fig. 4

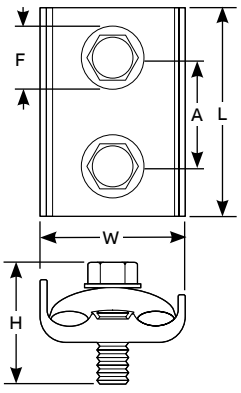


Fig. 5

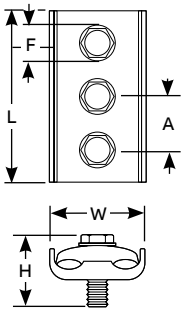


Fig. 6

* RUS accepted. AR = Over armor rod.
Note: For aluminum-hardware option, add "-7" suffix to the catalog number. For tin-plating option, add "-P" suffix to the catalog number.
For wax-dip option that provides oxide protection for aluminum-to-aluminum connections, add "-6" suffix to the catalog number.

Parallel-groove connectors

K series jumper clamps

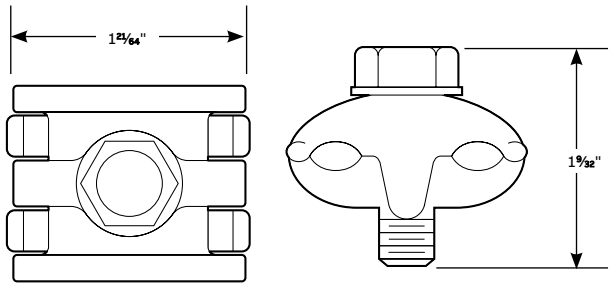
These jumper clamps are sized right for #8 solid copper to 1/0 ACSR or 2/0 copper.

- Made of copper alloy for high strength and durability
- Silicon-bronze hex-head washer bolt ensures a super-secure fitting
- Parallel-groove design eliminates the need to remove the bolt for installation
- Available unplated, plated or with plating in one groove – choose the model that works best with your wiring

Jumper clamp

	Plated groove (AWG)		Copper groove (AWG)		Both grooves plated (AWG)			
Cat. no.	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Both grooves unplated (AWG)**	
With one plated and one copper groove								
K1[1]	1/0 ASCR, #2 SCG Amerductor, 7/16 galv. strand	#6 ACSR, #12 SCG Amerductor, #8 solid iron	2/0 str. copper, 7/16 Copperweld*, 2A Copperweld	#8 solid copper, #9–12D Copperweld, etc.	–	–	–	–
With both grooves plated								
K2[2]	–	–	–	–	1/0 ASCR, #2 SCG Amerductor, 7/16 galvanized steel strand	#6 ACSR, #12 SCG Amerductor, #8 solid iron	–	–
With both grooves unplated								
K3[3]	–	–	–	–	–	–	2/0 str. copper, 7/16 Copperweld, 2A Copperweld	#8 solid copper, 9½D Copperweld, etc.

Diagrams



* Trademark of Copperweld.

1) Plated with plating removed from one groove. For use with aluminum, amerductor or galvanized steel strand to copper or copper-bonded steel wires.

2) Clamp is plated. For use with amerductor, aluminum or galvanized steel stranding.

3) Clamp is not plated. For copper-to-copper connections.