

## DOSSERT®

### TYPE AC, ACA Parallel Clamp

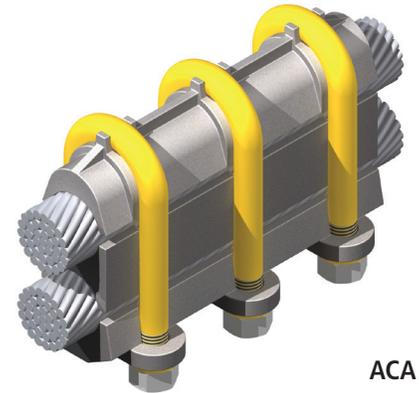
#### Material

Aluminum Alloy

#### Hardware

AC Galvanized steel U-bolts, nuts, and lockwashers.

ACA Yellow anodized aluminum U-bolts, nuts, and lockwashers.



ACA

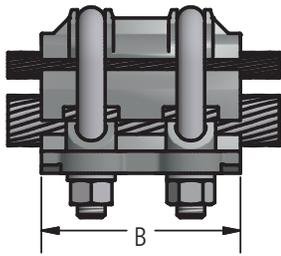


FIG. 1

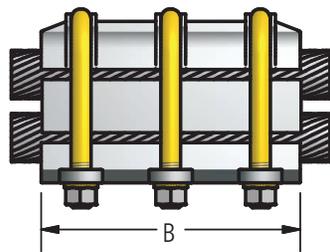


FIG. 2

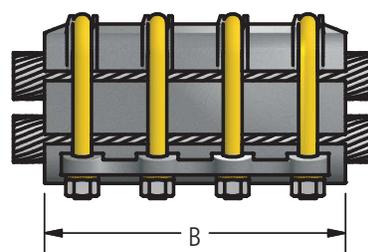
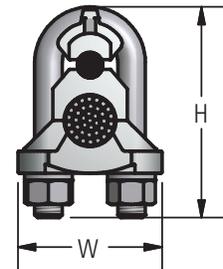


FIG. 3



### Ordering Information

CATALOG NUMBER		FIG. NO.	ACSR RANGE				ALUMINUM RANGE				DIMENSIONS IN INCHES			BOLT SIZE
AC	ACA		MAIN		TAP		MAIN		TAP		B	H	W	
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX				
AC401	ACA401	1	#2 SOL	1/0 STR	#2 SOL	1/0 STR	#2 SOL	2/0 STR	#2 SOL	2/0 STR	3	3 1/4	2 3/8	1/2
AC402	ACA402	1	2/0 STR	3/0 STR	#2 SOL	1/0 STR	3/0 STR	4/0 STR	#2 SOL	2/0 STR	3 3/8	3 1/2	2 3/8	1/2
AC403	ACA403	1	2/0 STR	3/0 STR	2/0 STR	3/0 STR	3/0 STR	4/0 STR	3/0 STR	4/0 STR	3 3/8	3 1/2	2 3/8	1/2
AC404	ACA404	1	3/0 STR	300 MCM	#2 SOL	1/0 STR	4/0 STR	350 MCM	#2 SOL	2/0 STR	3 5/8	3 5/8	2 1/2	1/2
AC405	ACA405	1	3/0 STR	300 MCM	2/0 STR	3/0 STR	4/0 STR	350 MCM	3/0 STR	4/0 STR	3 5/8	3 7/8	2 1/2	1/2
AC406	ACA406	1	3/0 STR	300 MCM	3/0 STR	300 MCM	4/0 STR	350 MCM	4/0 STR	350 MCM	3 5/8	3 7/8	2 1/2	1/2
AC407	ACA407	1	300 MCM	397.5 MCM	#2 SOL	1/0 STR	350 MCM	477 MCM	#2 SOL	2/0 STR	3 7/8	4 3/8	3	5/8
AC408	ACA408	1	300 MCM	397.5 MCM	2/0 STR	3/0 STR	350 MCM	477 MCM	3/0 STR	4/0 STR	3 7/8	4 3/8	3	5/8
AC409	ACA409	1	300 MCM	397.5 MCM	3/0 STR	300 MCM	350 MCM	477 MCM	4/0 STR	350 MCM	3 7/8	4 5/8	3	5/8
AC410	ACA410	1	300 MCM	397.5 MCM	300 MCM	397.5 MCM	350 MCM	477 MCM	350 MCM	477 MCM	3 7/8	4 5/8	3	5/8
AC411	ACA411	1	397.5 MCM	605 MCM	2/0 STR	3/0 STR	500 MCM	715.5 MCM	500 MCM	715.5 MCM	4 3/8	4 3/4	3 1/8	5/8
AC412	ACA412	1	397.5 MCM	605 MCM	3/0 STR	300 MCM	500 MCM	715.5 MCM	4/0 STR	350 MCM	4 3/8	4 3/4	3 1/8	5/8
AC413	ACA413	1	397.5 MCM	605 MCM	300 MCM	397.5 MCM	500 MCM	715.5 MCM	350 MCM	477 MCM	4 3/8	5	3 1/8	5/8
AC414	ACA414	1	397.5 MCM	605 MCM	397.5 MCM	605 MCM	500 MCM	715.5 MCM	500 MCM	715.5 MCM	4 3/8	5	3 1/8	5/8
AC415	ACA415	1	605 MCM	900 MCM	3/0 STR	300 MCM	750 MCM	1033.5 MCM	4/0 STR	350 MCM	4 3/4	5 1/8	3 3/8	5/8
AC416	ACA416	1	605 MCM	900 MCM	300 MCM	397.5 MCM	750 MCM	1033.5 MCM	350 MCM	477 MCM	4 3/4	5 1/8	3 3/8	5/8
AC417	ACA417	1	605 MCM	900 MCM	397.5 MCM	605 MCM	750 MCM	1033.5 MCM	500 MCM	715.5 MCM	4 3/4	5 1/2	3 3/8	5/8
AC418	ACA418	1	605 MCM	900 MCM	605 MCM	900 MCM	750 MCM	1033.5 MCM	750 MCM	1033.5 MCM	4 3/4	5 1/2	3 3/8	5/8
AC418S	ACA418S	1	477 MCM	636.4 MCM	2/0 STR	336.4 MCM	477 MCM	795 MCM	477 MCM	795 MCM	4 3/4	4 7/8	3 1/8	5/8
AC450	ACA450	1	1/0 STR	336.4 MCM	1/0 STR	336.4 MCM	1/0 STR	397.5 MCM	1/0 STR	397.5 MCM	3 5/8	4 3/16	2 1/2	1/2
AC460	ACA460	1	300 MCM	795 MCM	1/0 STR	336.4 MCM	336.4 MCM	954 MCM	1/0 STR	397.5 MCM	4 5/8	4 15/16	3 1/16	1/2
AC462	ACA462	1	336.4 MCM	795 MCM	110.8 MCM	447 MCM	397.5 MCM	954 MCM	3/0 STR	500 MCM	4 5/8	4 15/16	3 1/16	1/2

continued



# 230 kV Aluminum Bolted Parallel Clamps

**DOSSERT®**

**TYPE AC, ACA**  
Parallel Clamp

## Ordering Information

CATALOG NUMBER		FIG. NO.	ACSR RANGE				ALUMINUM RANGE				DIMENSIONS IN INCHES			BOLT SIZE
AC	ACA		MAIN		TAP		MAIN		TAP		B	H	W	
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX				
AC470	ACA470	1	300 MCM	795 MCM	300 MCM	795 MCM	336.4 MCM	954 MCM	336.4 MCM	954 MCM	4 5/8	5 9/16	3 7/32	5/8
AC480	ACA480	1	795 MCM	1033.5 MCM	795 MCM	1033.5 MCM	800 MCM	1113 MCM	800 MCM	1113 MCM	4 5/8	5 3/4	3 5/16	5/8
AC504	ACA504	2	397.5 MCM	605 MCM	397.5 MCM	605 MCM	500 MCM	715.5 MCM	500 MCM	715.5 MCM	5 7/8	5	3 1/8	5/8
AC505	ACA505	2	605 MCM	900 MCM	3/0 STR	300 MCM	750 MCM	1033.5 MCM	4/0 STR	350 MCM	6 3/4	5 1/8	3 3/8	5/8
AC506	ACA506	2	605 MCM	900 MCM	300 MCM	397.5 MCM	750 MCM	1033.5 MCM	350 MCM	477 MCM	6 3/4	5 1/8	3 3/8	5/8
AC507	ACA507	2	605 MCM	900 MCM	397.5 MCM	605 MCM	750 MCM	1033.5 MCM	500 MCM	715.5 MCM	6 3/4	5 1/2	3 3/8	5/8
AC508	ACA508	2	605 MCM	900 MCM	605 MCM	900 MCM	750 MCM	1033.5 MCM	750 MCM	1033.5 MCM	6 3/4	5 1/2	3 3/8	5/8
AC509	ACA509	2	954 MCM	1192.5 MCM	300 MCM	397.5 MCM	1113 MCM	1351.5 MCM	350 MCM	477 MCM	8 1/8	5 5/16	3 7/8	3/4
AC510	ACA510	2	954 MCM	1192.5 MCM	397.5 MCM	605 MCM	1113 MCM	1351.5 MCM	500 MCM	715.5 MCM	8 1/8	5 5/16	3 7/8	3/4
AC511	ACA511	2	954 MCM	1192.5 MCM	605 MCM	900 MCM	1113 MCM	1351.5 MCM	750 MCM	1033.5 MCM	8	6 3/8	3 7/8	5/8
AC512	ACA512	2	954 MCM	1192.5 MCM	954 MCM	1192.5 MCM	1113 MCM	1351.5 MCM	1113 MCM	1351.5 MCM	8	6 3/8	3 7/8	3/4
AC513	ACA513	2	1272 MCM	1590 MCM	397.5 MCM	605 MCM	1431 MCM	1750 MCM	500 MCM	715.5 MCM	9 3/4	6 5/8	4 1/8	3/4
AC514	ACA514	2	1272 MCM	1590 MCM	605 MCM	900 MCM	1431 MCM	1750 MCM	750 MCM	1033.5 MCM	9 3/4	6 5/8	4 1/8	3/4
AC515	ACA515	2	1272 MCM	1590 MCM	954 MCM	1192.5 MCM	1431 MCM	1750 MCM	1113 MCM	1351.5 MCM	9 3/4	7	4 1/8	3/4
AC516	ACA516	2	1033.5 MCM	1590 MCM	1033.5 MCM	1590 MCM	1033.5 MCM	1750 MCM	1033.5 MCM	1750 MCM	9 3/4	7	4 1/8	5/8
AC518	ACA518	2	1780 MCM	2300 MCM	605 MCM	1033.5 MCM	2000 MCM	2500 MCM	700 MCM	1192.5 MCM	9 3/4	6 1/2	4 5/16	5/8
AC520	ACA520	2	1780 MCM	2300 MCM	1780 MCM	2300 MCM	2000 MCM	2500 MCM	2000 MCM	2500 MCM	9 3/4	7 3/8	4 5/16	5/8
AC604	ACA604	3	336.4 MCM	397.5 MCM	336.4 MCM	397.5 MCM	350 MCM	477 MCM	350 MCM	477 MCM	7	4 1/2	2 1/2	1/2
AC605	ACA605	3	397.5 MCM	605 MCM	336.4 MCM	397.5 MCM	500 MCM	715.5 MCM	350 MCM	477 MCM	7	4 3/4	2 11/16	1/2
AC606	ACA606	3	397.5 MCM	605 MCM	397.5 MCM	605 MCM	500 MCM	715.5 MCM	500 MCM	715.5 MCM	7 1/2	4 3/4	2 11/16	1/2
AC607	ACA607	3	605 MCM	900 MCM	336.4 MCM	397.5 MCM	715.5 MCM	1033.5 MCM	350 MCM	477 MCM	7 1/2	4 7/8	2 15/16	1/2
AC608	ACA608	3	605 MCM	900 MCM	397.5 MCM	605 MCM	715.5 MCM	1033.5 MCM	500 MCM	715.5 MCM	7 1/2	4 7/8	2 15/16	1/2
AC609	ACA609	3	605 MCM	900 MCM	605 MCM	900 MCM	715.5 MCM	1033.5 MCM	715.5 MCM	1033.5 MCM	7 1/2	4 7/8	2 15/16	1/2
AC610	ACA610	3	954 MCM	1192.5 MCM	336.4 MCM	397.5 MCM	1000 MCM	1351.5 MCM	350 MCM	477 MCM	10	5 1/4	3 7/16	5/8
AC611	ACA611	3	954 MCM	1192.5 MCM	397.5 MCM	605 MCM	1000 MCM	1351.5 MCM	500 MCM	715.5 MCM	10	5 1/4	3 7/16	5/8
AC612	ACA612	3	954 MCM	1192.5 MCM	605 MCM	1033.5 MCM	1000 MCM	1351.5 MCM	700 MCM	1192.5 MCM	10	5 3/4	3 7/16	5/8
AC613	ACA613	3	954 MCM	1192.5 MCM	954 MCM	1192.5 MCM	1000 MCM	1351.5 MCM	1000 MCM	1351.5 MCM	10	5 3/4	3 7/16	5/8
AC614	ACA614	3	1272 MCM	1590 MCM	336.4 MCM	397.5 MCM	1431 MCM	1750 MCM	350 MCM	477 MCM	10	5 3/8	3 5/8	5/8
AC615	ACA615	3	1272 MCM	1590 MCM	397.5 MCM	605 MCM	1431 MCM	1750 MCM	500 MCM	715.5 MCM	10	5 5/8	3 5/8	5/8
AC616	ACA616	3	1272 MCM	1590 MCM	605 MCM	900 MCM	1431 MCM	1750 MCM	715.5 MCM	1033.5 MCM	10	5 3/4	3 5/8	5/8
AC617	ACA617	3	1272 MCM	1590 MCM	954 MCM	1192.5 MCM	1431 MCM	1750 MCM	1000 MCM	1351.5 MCM	10	6	3 5/8	5/8
AC618	ACA618	3	1272 MCM	1590 MCM	1272 MCM	1590 MCM	1431 MCM	1750 MCM	1431 MCM	1750 MCM	10	6	3 5/8	5/8

230 kV – Bolted Parallel Clamps

## DOSSERT® TYPE AC100-AA Parallel Connector

Single bolt type parallel connector for joining two cables. Bolt retainer built into casting for one wrench installation.

### Material

Aluminum Alloy

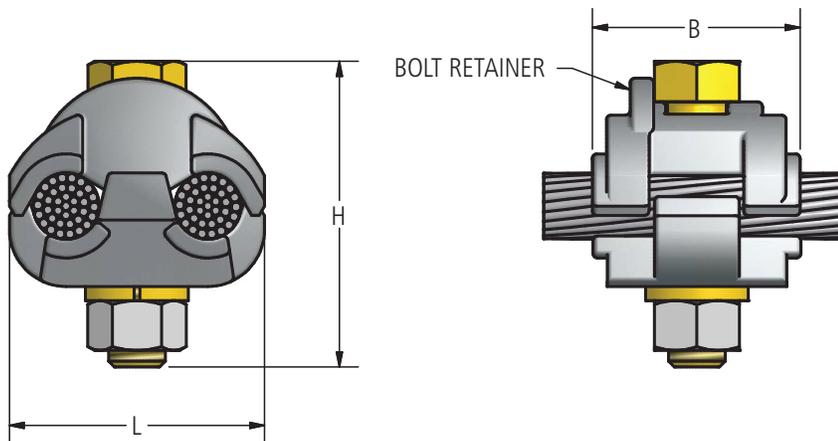
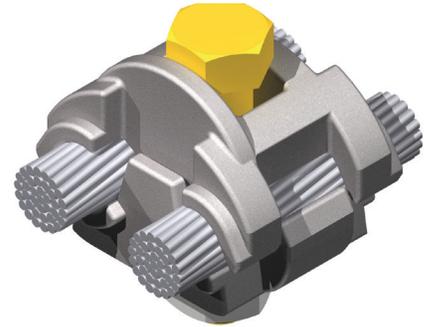
### Hardware

ACA100 Series: Aluminum bolts, lockwashers and nuts

AC100 series: Galvanized steel bolts, lockwashers and nuts

### Notes

1. For Stainless Belleville washers and add "-BW" to catalog number. EX: AC102-BW
2. For Electro Tin plate add "-SN" to catalog number. EX: ACA103-SN
3. For ALNOX prefilled connector add "-LP" to catalog number. EX: AC103-LP



## Ordering Information

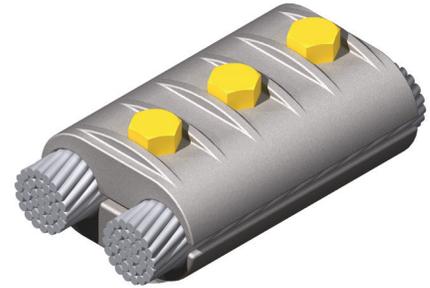
CATALOG NUMBER		CABLE RANGE								DIMENSIONS IN INCHES			BOLT SIZE
		RUN				TAP				B	H	L	
		ACC		ACSR		ACC		ACSR					
AC100	ACA100	#8 SOL	1/0 STR	#8STR	1/0 ACSR	#8 SOL	1 STR	#8STR	#2 ACSR	1 1/8	1 15/16	1 3/8	5/16
AC101	ACA101	#8 SOL	1/0 STR	#8STR	1/0 ACSR	#8 SOL	1/0 STR	#8STR	1/0 ACSR	1 3/8	2	1 3/4	3/8
AC102	ACA102	#4 SOL	4/0 STR	#4STR	4/0 ACSR	#4 SOL	4/0 STR	#4STR	4/0 ACSR	2	2 5/8	2 1/8	1/2
AC103	ACA103	#4 SOL	350 MCM	#4STR	336.4 MCM ACSR	#8 SOL	2/0 STR	#8STR	2/0 ACSR	1 13/16	2 1/4	2 1/16	3/8
AC122	ACA122	#2 SOL	500 MCM	#2STR	397.5 MCM ACSR	#6 SOL	3/0 STR	#6STR	3/0 ACSR	2 1/4	2 3/4	2 3/8	1/2
AC124	ACA124	1/0 STR	1033.5 MCM	1/0 STR	954 MCM ACSR	#2 SOL	4/0 STR	#4STR	4/0 ACSR	2 9/16	2 3/8	3	5/8

## DOSSERT®

### TYPE PC-AA

#### Connector For Two Cables In Parallel

A clamp type connector for connecting two cable or wire conductors in parallel. Each connector listed show a equal run and tap only. However, any combination accommodating unequal size cables is available.



#### Material

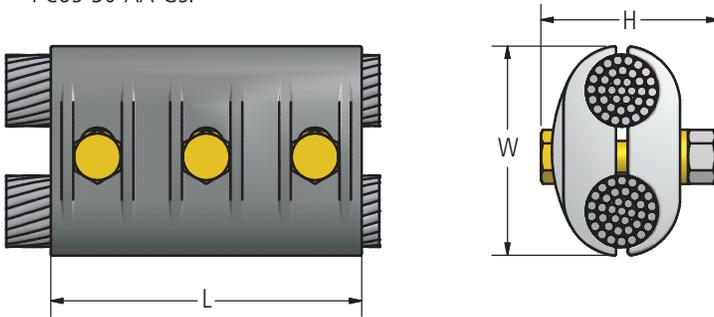
Aluminum Alloy

#### Hardware

Yellow anodized aluminum bolts, nuts and lockwashers.

#### Notes

- To order an unequal size cable clamp create a catalog number. EX: for a 636 MCM run and 300 MCM tap Order: PC65-30-AA.
- For Galvanized steel hardware add suffix "-GS" to catalog number order: PC65-30-AA-GS.



### Ordering Information

CATALOG NUMBER	CONDUCTOR RANGE				DIMENSIONS IN INCHES			BOLT SIZE
	ACSR		ALUM. OR CU.		H	L	W	
	MIN	MAX	MIN	MAX				
PC10-10-AA	1(6/1)	80(8/1)	2/0 SOL	1/0 STR	1 3/4	3	1 17/32	1/2
PC13-13-AA	1/0(6/1)		3/0 SOL	2/0 STR	1 3/4	3	1 5/8	1/2
PC17-17-AA	2/0	110.8(12/7)	4/0 SOL	3/0 STR	2	4	1 27/32	1/2
PC21-21-AA	3/0	134.6(12/7)	4/0 STR		2	4	2 1/32	1/2
PC25-25-AA	4/0	203(8/7)	250 MCM	266.8 MCM	2 1/4	4	2 1/16	1/2
PC30-30-AA	176.9(12/7)	266.8(26/7)	300 MCM		2 1/4	4 1/2	2 9/32	1/2
PC35-35-AA	211.3(12/7)	336.4(18/1)	336.4 MCM	350 MCM	2 1/4	4 1/2	2 3/8	1/2
PC40-40-AA	203.2(16/19)	397.5(18/1)	394.5 MCM	400 MCM	2 1/2	5	2 1/2	1/2
PC50-50-AA	397.5(26/7)	477(18/1)	450 MCM	500 MCM	2 1/2	5	2 5/8	1/2
PC60-60-AA	477(24/7)	477(30/7)	550 MCM	600 MCM	2 1/2	5	2 27/32	1/2
PC65-65-AA	500(30/7)	636(36/1)	636 MCM	650 MCM	2 1/2	5	3	1/2
PC75-75-AA	605(26/7)	666.6(24/7)	700 MCM	750 MCM	2 1/2	5 1/4	3 1/16	1/2
PC80-80-AA	715.5(24/7,26/7)	795(36/1)	795 MCM	800 MCM	2 1/2	5 1/4	3 1/8	1/2
PC103-103-AA	795(24/7)	954(54/7)	900 MCM	1033.5 MCM	2 3/4	5 1/2	3 3/8	1/2
PC127-127-AA	1033.5(36/1)	1113(54/19)	1100 MCM	1272 MCM	3	5 1/2	3 5/8	1/2
PC150-150-AA	1192.5(45/7)	1351.5(54/19)	1300 MCM	1500 MCM	3 1/2	6	4 1/8	5/8
PC175-175-AA	1431(45/7)	1590(54/19)	1590 MCM	1750 MCM	3 1/2	6	4 1/2	5/8
PC200-200-AA	1590(54/19)	1780(54/19)	1800 MCM	2000 MCM	3 1/2	6	4 1/2	5/8

## DOSSERT®

### TYPE TRV-AA

#### Parallel Connector

Connects a cable main parallel to a cable tap, features clamping members made of aluminum. The bolts, nuts and lockwashers are stainless steel to enhance clamping efficiency and resistance to corrosion. The assembly is encased in a plastic cover.

#### Material

Aluminum Alloy

#### Hardware

Stainless Steel bolts, Belleville spring washers, and Neoprene bolt retainers.

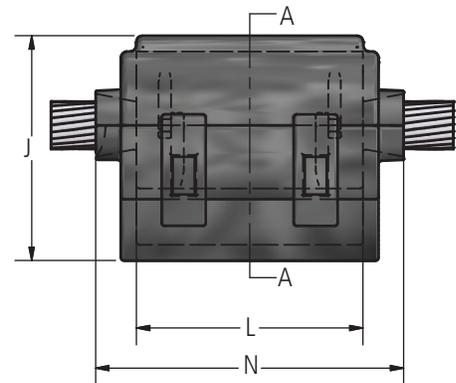
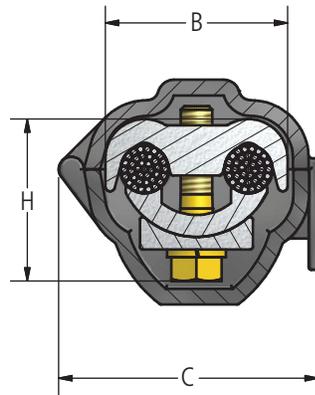
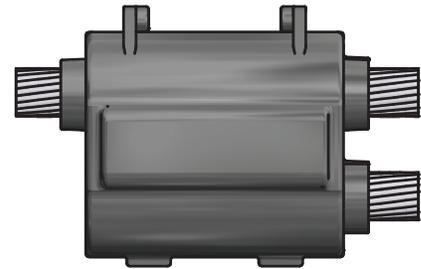
#### Cover

Black Polyethylene

#### Note

For conductor grooves coated with Alnox, order by adding prefix -LP.

EX: TRV10-10-AA-LP

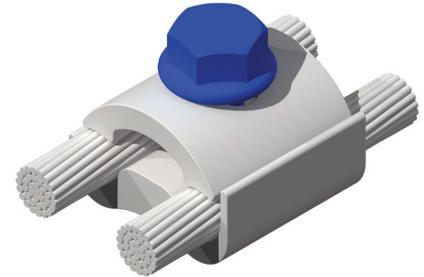


## Ordering Information

CATALOG NUMBER	CABLE RANGE				DIMENSIONS IN INCHES						BOLT SIZE
	RUN		TAP		B	C	H	J	L	N	
	MIN	MAX	MIN	MAX							
TRV10-10-AA	#8	# 1/0	#8	# 1/0	1.500	2 11/32	1.370	1 25/32	1.620	2 5/8	5/16
TRV10-35-AA	#8	# 1/0	# 3/0	350	2.090	2 15/16	1.900	2 7/32	2.120	3 1/8	3/8
TRV17-10-AA	#4	# 3/0	#8	# 1/0	1.700	2 19/32	1.610	2 1/32	2.120	3 1/8	3/8
TRV17-17-AA	#4	# 3/0	#4	# 3/0	1.750	2 19/32	1.610	2 1/32	2.120	3 1/8	3/8
TRV35-10-AA	# 3/0	350	#8	# 1/0	2.090	2 15/16	1.900	2 7/32	2.120	3 1/8	3/8
TRV35-35-AA	# 3/0	350	# 3/0	350	2.310	3 5/32	1.910	2 1/4	2.120	3 1/8	3/8

## DOSSERT® Distribution Parallel Groove Clamps (Series 390 and 490)

Catalog 390 and Catalog 490 Series Distribution Parallel Groove Clamps with a single bolt accommodate a range of conductors in each groove. This type of clamp is commonly used for service drop connections and as a tap from large to relatively small conductors.



### Material

Aluminum Alloy

### Hardware

Blue anodized bolt.

### Notes

1. To order Parallel Groove Clamps prefilled with Alnox Compound, add P or W suffix to part number. See ordering information below.
2. The use of Alnox Compound liberally in grooves and on wire is recommended. Be sure conductors are clean. All conductors (new and old) should be thoroughly cleaned with a scratch brush or emery cloth.
3. Extensive field experience and exposure tests show that if a suitable type joint compound is liberally applied over and around the contact area, copper-to-aluminum electric connections can be made satisfactorily with aluminum clamps without copper bushings. Alnox Compound is recommended.

### Ordering Information

CATALOG NUMBER	GROOVE SIZE		BOLT SIZE (IN)	TORQUE (FT-LBS)	NOMINAL WEIGHT (LBS)
	RUN 1	TAP 2			
490.0	0	0	5/16"	10	0.060
395.5	5	5	3/8"	15	0.092
396.6	6	6	3/8"	15	0.129
397.5	7	5	7/16"	20	0.179
392.6	2	6	1/2"	25	0.316
393.6	3	6	5/8"	40	0.642

Standard groove numbers are used for the complete range of clamps and connectors. These numbers are incorporated into the AFL part number itself.

GROOVE SIZE	GROOVE SIZE		CONDUCTOR SIZE			
	DIMENSIONS IN INCHES		ACSR		STRANDED ALUMINUM	
	MIN	MAX	MIN	MAX	MIN	MAX
0	0.128	0.325	6 6/1	2 7/1	8 & 8W	2
5	0.128	0.398	6 6/1	1/0	8 & 8W	1/0
6	0.162	0.464	6 6/1	2/0 6/1	6	3/0
1	0.292	0.502	2 6/1	3/0	2	3/0
7	0.368	0.593	1/0	4/0	1/0	266.8 MCM
2	0.464	0.743	3/0	397 18/1	3/0	400 MCM
3	0.743	1.152	397 18/1	795 26/7	450 MCM	1,000 MCM
4	1.060	1.545	795 45/7	1590 54/19	874.5 MCM	1,750 MCM

### Notes

1. NEMA standard abbreviations for aluminum or copper: W = solid conductor, ACSR = aluminum conductor/steel reinforced

## DOSSERT® Center Bolt Clamps Series 480

Catalog 480 Series Center Bolt Clamps are a multiple bolt heavy duty universal groove design which can handle the full electrical load of the conductor. They offer the convenience of installation without any loose parts. Catalog 480 Clamps are made from extruded high strength aluminum alloy and can be taped easily. Additionally, they have a minimum bulk, which results in a neat appearance.



### Material

Aluminum Alloy

### Hardware

Blue anodized bolt.

### Notes

1. To order Parallel Groove Clamps prefilled with Alnox Compound, add P or W suffix to part number. See ordering information below.
2. The use of Alnox Compound liberally in grooves and on wire is recommended. Be sure conductors are clean. All conductors (new and old) should be thoroughly cleaned with a scratch brush or emery cloth.
3. Extensive field experience and exposure tests show that if a suitable type joint compound is liberally applied over and around the contact area, copper-to-aluminum electric connections can be made satisfactorily with aluminum clamps without copper bushings. Alnox Compound is recommended.

### Ordering Information

CATALOG NUMBER	GROOVE SIZE		NUMBER OF BOLTS	BOLT SIZE (IN)	TORQUE (FT-LBS)	NOMINAL WEIGHT (LBS)
	RUN 1	TAP 2				
486.6	6	6	2	3/8"	15	0.2
481.0	1	0	2	3/8"	15	0.3
481.1	1	1	2	3/8"	15	0.3
482.1	2	1	2	1/2"	25	0.6
482.2	2	2	3	1/2"	25	1.1
483.2	3	2	2	5/8"	40	1.8
483.3	3	3	3	5/8"	40	2.8

Standard groove numbers are used for the complete range of clamps and connectors. These numbers are incorporated into the AFL part number itself.

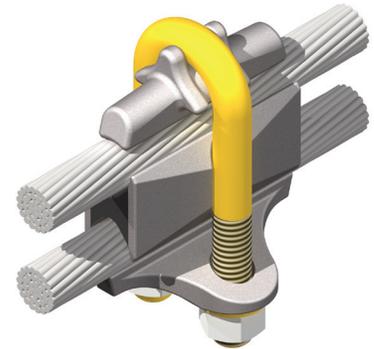
GROOVE SIZE	GROOVE SIZE		CONDUCTOR SIZE			
	DIMENSIONS IN INCHES		ACSR		STRANDED ALUMINUM	
	MIN	MAX	MIN	MAX	MIN	MAX
0	0.128	0.325	6 6/1	2 7/1	8 & 8W	2
5	0.128	0.398	6 6/1	1/0	8 & 8W	1/0
6	0.162	0.464	6 6/1	2/0 6/1	6	3/0
1	0.292	0.502	2 6/1	3/0	2	3/0
7	0.368	0.593	1/0	4/0	1/0	266.8 MCM
2	0.464	0.743	3/0	397 18/1	3/0	400 MCM
3	0.743	1.152	397 18/1	795 26/7	450 MCM	1,000 MCM
4	1.060	1.545	795 45/7	1590 54/19	874.5 MCM	1,750 MCM

### Notes

1. NEMA standard abbreviations for aluminum or copper: W = solid conductor, ACSR = aluminum conductor/steel reinforced

## DOSSERT® U-Bolt Clamps Series 580

Catalog 580 Series U-Bolt Clamps are heavy duty, high efficiency connectors with AFL full-capacity grooves. The U-Bolts are high strength aluminum alloy for excellent thermal expansion and corrosion resistance characteristics.



### Material

Aluminum Alloy

### Hardware

Yellow anodized aluminum U-bolts, nuts and lockwashers.

### Notes

1. To order Parallel Groove Clamps prefilled with Alnox Compound, add P or W suffix to part number. See ordering information below.
2. The use of Alnox Compound liberally in grooves and on wire is recommended. Be sure conductors are clean. All conductors (new and old) should be thoroughly cleaned with a scratch brush or emery cloth.
3. Extensive field experience and exposure tests show that if a suitable type joint compound is liberally applied over and around the contact area, copper-to-aluminum electric connections can be made satisfactorily with aluminum clamps without copper bushings. Alnox Compound is recommended.

### Ordering Information

CATALOG NUMBER	GROOVE SIZE		NUMBER OF BOLTS	BOLT SIZE (IN)	TORQUE (FT-LBS)	NOMINAL WEIGHT (LBS)
	RUN 1	TAP 2				
581.1	1	1	1	3/8"	15	0.3
582.1	2	1	1	1/2"	25	0.6
582.2	2	2	2	1/2"	25	1.3
583.1	3	1	1	5/8"	40	1.1
583.2	3	2	2	5/8"	40	2.6
583.3	3	3	3	5/8"	40	3.9
584.1	4	1	1	5/8"	40	1.7
584.2	4	2	2	5/8"	40	3.6
584.3	4	3	3	5/8"	40	5.8
584.4	4	4	3	5/8"	40	6.0

Standard groove numbers are used for the complete range of clamps and connectors. These numbers are incorporated into the AFL part number itself.

GROOVE SIZE	GROOVE SIZE		CONDUCTOR SIZE			
	DIMENSIONS IN INCHES		ACSR		STRANDED ALUMINUM	
	MIN	MAX	MIN	MAX	MIN	MAX
0	0.128	0.325	6 6/1	2 7/1	8 & 8W	2
5	0.128	0.398	6 6/1	1/0	8 & 8W	1/0
6	0.162	0.464	6 6/1	2/0 6/1	6	3/0
1	0.292	0.502	2 6/1	3/0	2	3/0
7	0.368	0.593	1/0	4/0	1/0	266.8 MCM
2	0.464	0.743	3/0	397 18/1	3/0	400 MCM
3	0.743	1.152	397 18/1	795 26/7	450 MCM	1,000 MCM
4	1.060	1.545	795 45/7	1590 54/19	874.5 MCM	1,750 MCM

### Notes

1. NEMA standard abbreviations for aluminum or copper: W = solid conductor, ACSR = aluminum conductor/steel reinforced

## DOSSERT® TYPE UD-AA Universal Parallel Clamp

A universal clamp to provide a connection for two cables or wires over a wide range of sizes.

### Material

Aluminum Alloy

### Hardware

Yellow anodized aluminum bolts, nuts and lockwashers.

### Notes

Voltage rating is 230 kV

For tin plating add "-SN" to end of catalog number. EX: UD50-21-AA-SN

Add suffix "GS" for galvanized steel hardware. EX: UD50-21-AA-GS

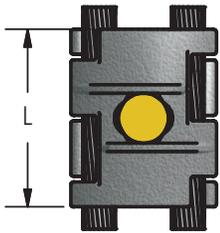


FIG. 1

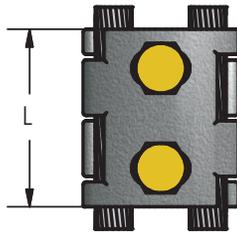


FIG. 2

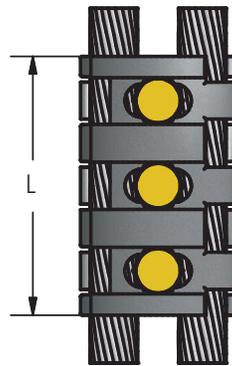
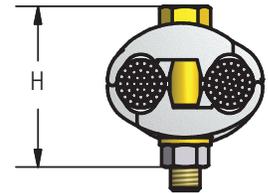


FIG. 3



## Ordering Information

CATALOG NUMBER	CONDUCTOR RANGE AAC		FIGURE NUMBER	DIMENSIONS IN INCHES		
	MIN	MAX		H	L	BOLT SIZE
UD10-2-AA	#6 SOL.	1/0 STR.	1	1 3/4	2	3/8
UD21-4-AA	#4 SOL.	4/0 STR.	2	2	2 1/4	3/8
UD30-6-AA	#2 SOL.	300 MCM	2	2 1/4	2 1/2	3/8
UD50-21-AA	4/0 STR.	500 MCM	3	2 3/4	4 3/8	1/2
UD80-30-AA	300 MCM	800 MCM	3	3 1/4	4 1/2	1/2
UD100-50-AA	500 MCM	1000 MCM	3	3 1/2	4 5/8	1/2