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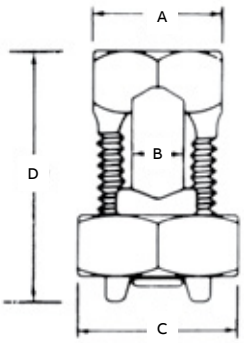
Split-bolt connectors

Type H – High strength split-bolt connectors

For copper to copper connections

- Bolt and nut of high strength corrosion-resistant bronze alloy
- Pressure bar is copper through 40H; copper alloy is used for 350 kcmil and above
- Bolt and nut of hex design up to 350 kcmil
- CSA certified and UL listed

Diagram



	Conductor range (AWG or kcmil)				Dimensions (in.)	
Cat. no.	Range for equal main and tap	Min. tap with one max. main	A	B	C	D
9H	10 str.–12 sol.	14 sol.	3/8	0.146	1/2	25/32
8H	8 str.–10 sol.	14 sol.	3/8	0.146	1/2	25/32
8H3*	8 str.–12 sol.	16 str.	3/8	0.146	1/2	29/32
6H	6 sol.–8 sol.	14 sol.	15/32	0.170	21/32	31/32
6H3*	6 sol.–10 sol.	16 str.	15/32	0.170	21/32	1 1/8
4H	4 sol.–8 sol.	14 sol.	17/32	0.235	23/32	1 1/16
4H3*	4 sol.–8 sol.	16 str.	17/32	0.235	23/32	1 9/32
3H	3 sol.–8 sol.	16 str.	17/32	0.235	23/32	1 1/16
3H3*	4 str.–8 sol.	16 str.	17/32	0.235	23/32	1 9/32
2H	2 sol.–6 sol.	14 sol.	19/32	0.271	25/32	1 1/4
2H3*	2 sol.–6 sol.	14 sol.	19/32	0.271	25/32	1 15/32
1H	2 str.–6 sol.	14 sol.	11/16	0.330	7/8	1 11/32
1H3**	2 str.–6 sol.	14 sol.	11/16	0.330	7/8	1 5/8
10H	1/0 str.–4 sol.	14 sol.	3/4	0.385	15/16	1 19/32
20H	2/0 str.–2 sol.	14 sol.	7/8	0.443	1 1/16	1 13/16
30H	4/0 str.–2 sol.	6 sol.	1	0.580	1 5/16	2 5/32
40H	250 –1 str.	8 sol.	1	0.580	1 5/16	2 5/32
350M	350 –250	1/0 str.	1 5/16	0.717	1 21/32	2 11/16
500M	500 –400	2/0 str.	1 1/2	0.842	1 7/8	3 1/32
750M	750 –600	4/0 str.	1 15/16	1.029	2 1/4	3 21/32
1000M	1000 –800	4/0 str.	2 1/4	1.185	2 17/32	4 1/32

* Will accommodate 3 wires of maximum size.
** Will accommodate 3 #2 str. wires.
UL recognizes solid and stranded conductor configurations for sizes #8 and smaller and stranded configurations only for sizes #6 and larger.

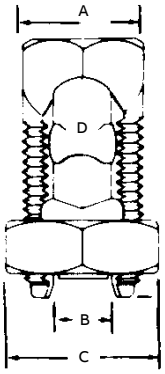
Split-bolt connectors

Type HPS – Plated split-bolt connectors with spacer

For use on copper, aluminum and ACSR conductors

- Most connectors are CSA certified and UL listed for copper conductors only
- Bolt and pressure bar of copper alloy completely tin-plated
- Contoured spacer of electrolytic copper up through 4/0 AWG; bronze alloy 350 kcmil and above, all tin-plated
- Blackburn Contax recommended when used on aluminum conductors

		Conductor range (AWG or)						
		Range for equal main and tap	Range for equal main and tap	Min. tap with one max. main				Dimensions (in.)
	Cat. no.	ACSR	Copper or aluminum		A	B	C	D
Diagram	9HPS	–	10 str.–12 sol.	12 sol.	3/8	0.146	1/2	29/32
	8HPS	–	8 str.–12 sol.	12 sol.	3/8	0.146	1/2	29/32
	6HPS	8	6 str.–12 sol.	12 sol.	15/32	0.170	21/32	1 1/8
	4HPS	6–8	4 sol.–12 sol.	12 sol.	17/32	0.235	23/32	1 9/32
	2HPS	4–8	2 sol.–8 sol.	8 sol.	19/32	0.274	25/32	1 15/32
	1HPS	2–8	1 str.–8 sol.	8 sol.	11/16	0.330	7/8	1 5/8
	10HPS	1–6	1/0 str.–6 sol.	6 sol.	3/4	0.385	15/16	1 13/16
	20HPS	1/0–6	2/0 str.–6 sol.	6 sol.	7/8	0.443	1 1/16	2 1/16
	40HPS	4/0–4	4/0 str.–4 sol.	4 sol.	1	0.580	1 5/16	2 15/32
	350HPS	266.8–1/0	350 –1/0 str.	2 sol.	1 5/16	0.717	1 21/32	2 11/16
	500HPS*	397.5–1/0	500 –1/0 str.	1/0 str.	1 1/2	0.842	1 7/8	3 1/32
	750HPS*	666.6–4/0	750 –4/0 str.	2/0 str.	1 15/16	1.029	2 1/4	3 21/32
	1000HPS*	900–477	1000 –500	4/0 str.	2 1/4	1.185	2 17/32	4 1/32



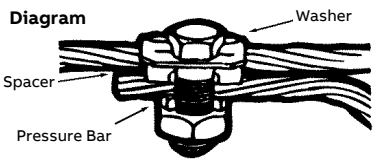
* CSA not applicable.

Type HPW – Plated split-bolt connectors with spacer and washer

For use on combinations of copper, aluminum and ACSR conductors

- Most connectors are CSA certified and UL listed for copper conductors only
- Bolt and pressure bar of high strength copper alloy completely tin-plated; spacer and washer of electrolytic copper up through 4/0 AWG; bronze alloy 350 kcmil and above, all tin-plated
- Contoured spacer and bell mouth washer distribute pressure over large area of conductor
- Large contoured spacer provides wide separation between copper and aluminum conductors
- Blackburn Contax recommended when used with aluminum conductors

		Conductor range (AWG or kcmil)						
		Range for equal main and tap	Range for equal main and tap	Min. tap with one max. main				Dimensions (in.)
	Cat. no.	ACSR	Copper or aluminum		A	B	C	D
Diagram	6HPW	8	6 sol.–12 sol.	12 sol.	15/32	0.170	21/32	1 1/8
	4HPW	6–8	4 sol.–12 sol.	12 sol.	17/32	0.235	23/32	1 9/32
	2HPW	4–8	2 sol.–8 sol.	8 sol.	19/32	0.271	25/32	1 15/32
	1HPW	2–8	1 str.–8 sol.	8 sol.	11/16	0.330	7/8	1 5/8
	10HPW	1–6	1/0 str.–6 sol.	6 sol.	3/4	0.385	15/16	1 13/16
	20HPW	1/0–6	2/0 str.–6 sol.	6 sol.	7/8	0.443	1 1/16	2 1/16
	40HPW*	4/0–4	4/0 str.–4 sol.	4 sol.	1	0.580	1 5/16	2 15/32



* CSA not applicable.

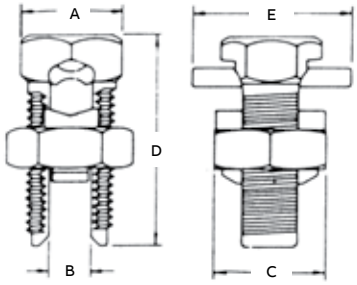
Split-bolt connectors

Type APS – Aluminum dual-rated split-bolts

Accommodate all aluminum and copper conductor combinations

- 6 bolts cover the range from #10 to 4/0 AWG
- Can be installed with standard wrenches
- Corrosion-resistant tin-plated aluminum
- CSA Certified and UL Listed to 90 °C 600 V

Diagrams



Cat. no.	Conductor range (AWG or kcmil) Range for equal main and tap	Dimensions (in.) A	B	C	D	E
APS06	6–10 str.	17/32	0.21	23/32	1.27	1¼
APS04	4–10 str.	19/32	0.27	25/32	1.48	1¼
APS02	2–8 str.	11/16	0.33	⅞	1.63	1¼
APS11	1/0–4 str.	⅞	0.44	1⅛	2.07	1½
APS21	2/0–4 str.	⅞	0.44	1⅛	2.07	1½
APS41	4/0–2 str.	1	0.57	1¼	2.47	1 23/32
APS350*	350–4 str.	1 7/16	0.70	1 11/16	3.36	2¼
APS500*	500–2 str.	1 11/16	0.84	2	3.62	2⅝

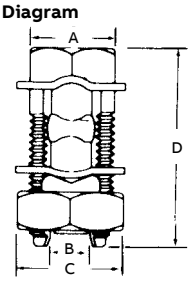
* Square head design CSA not applicable.

Type AAW – Aluminum split-bolt connectors with spacer and washers

For all-aluminum applications

- Bolt, nut, pressure bar and contoured spacer of aluminum alloy
- Large contoured spacer gives wide separation
- Nut anodized to prevent thread galling
- Blackburn Contax recommended when used on aluminum conductors

Diagram



Cat. no.	Conductor range (AWG or kcmil) Range for equal main and tap ACSR	Range for equal main and tap	Min. tap with one max. main Aluminum	Dimensions (in.) A	B	C	D
6AAW	6–8	4 sol.–8 sol.	10 sol.	17/32	0.236	23/32	1 9/32
4AAW	4–8	2 sol.–8 sol.	8 sol.	19/32	0.272	25/32	1 15/32
2AAW	2–8	1 str.–8 sol.	8 sol.	11/16	0.330	⅞	1⅝
1AAW	1–4	1/0 str.–8 sol.	4 sol.	⅞	0.443	1⅛	2 1/16
10AAW	1/0–4	2/0 str.–8 sol.	4 sol.	⅞	0.443	1⅛	2 1/16
40AAW	4/0–4	4/0 str.–4 sol.	4 sol.	1	0.580	1¼	2 15/32

Parallel groove connectors

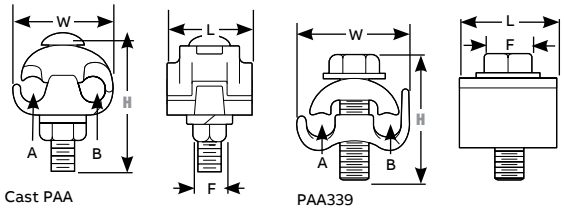
PAA one- and two-bolt aluminum parallel groove clamps

High-strength, heat-treated cast aluminum alloy provides secure connections

- All hardware items come standard
- Use on aluminum, ACSR and copper conductors
- Prevents oxidation on copper-to-aluminum connections

Standard cat. no.	Prefilled cat. no.	Conductor range (AWG or kcmil) A Main ACSR	A Main Al/Cu	B Tap ACSR	B Tap Al/Cu	Conductor diameter Main Max.	Main Min.	Tap Max.	Tap Min.	Dimensions (in.) F	L	H	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



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

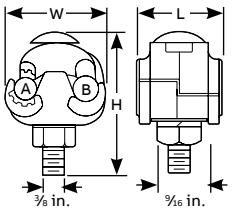
PAC aluminum parallel groove clamps with copper liner

Our most corrosion-resistant groove clamp ever

- Effectively seals out moisture and resists corrosion
- Reduces the possibility of galvanic corrosion

Standard cat. no.	Prefilled cat. no.	Conductor range (AWG or kcmil) A Main ACSR	A Main Al	B Tap Copper	Conductor diameter 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 catalogue number.

Parallel groove connectors

PAE parallel groove clamps, extruded type

Galvanized steel hardware provides high strength for heavy-duty applications

- Use the tools you already have
- Standard for aluminum-to-copper connections
- Prevents oxidation on copper-to-aluminum connections

Note: For aluminum-hardware option, add "-7" suffix to the catalogue number. For tin-plating option, add "-P" suffix to the catalogue number. For wax-dip option that provides oxide protection for aluminum-to-aluminum connections, add "-6" suffix to the catalogue number.

	Conductor range (AWG or kcmil)		Conductor diameter (in.)					Dimensions (in.)							
			Main		Tap									Galvanized steel bolt	Aluminum bolt thd.
Cat. No.	Main	Tap	Max.	Min.	Max.	Min.	Fig.	H	W	L	F	B	A	thd. size	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	7/8	–	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	2 13/16	2 59/64	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

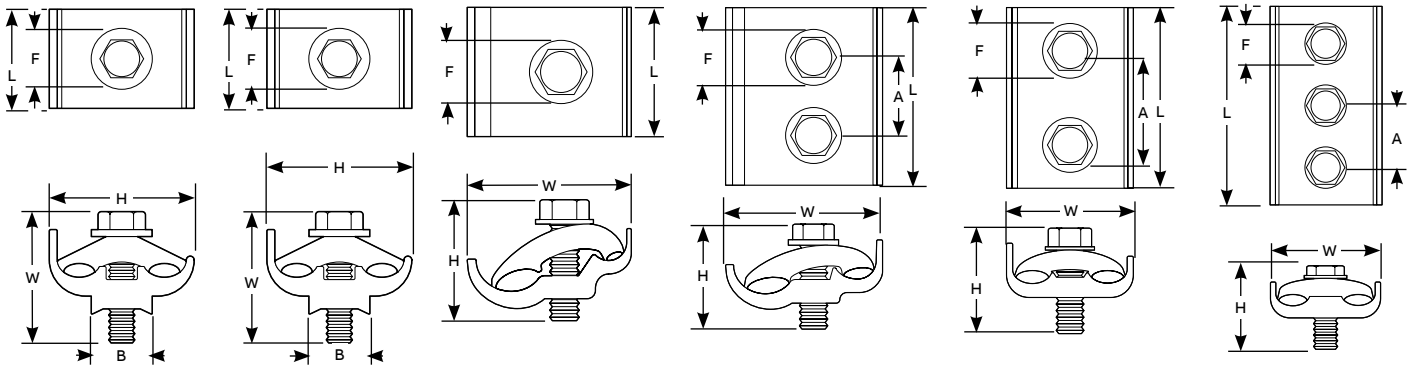


Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Fig. 6

* RUS Listed.
AR = Over armor rod.

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

- Provides high strength and durability
- Ensures a super-secure fitting
- No need to remove the bolt for installation
- Choose the model that works best with your wiring

	Plated groove			Copper groove
Cat. no.	**Max.**	**Min.**	**Max.**	**Min.**
K1	1/0 ACSR, #2 SCG amerductor, 7/16 in. galv. Steel strand	#6 ACSR, #12 SCG amerductor, #8 solid iron	2/0 str. copper, 7/16 in. Copperweld*, 2A Copperweld*	#8 solid copper, #9–12D Copperweld*

*Trademark of Copperweld.
NOTE: Plated with plating removed from one groove. For use with aluminum, amerductor or galvanized steel strand to copper or copper-bonded steel wires.

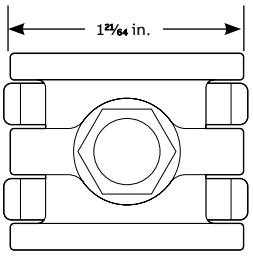
	Both Grooves Plated	
Cat. No.	**Max.**	**Min.**
K2	1/0 ACSR, #2 SCG amerductor, 7/16 in. galvanized steel strand	#6 ACSR, #12 SCG amerductor, #8 solid iron

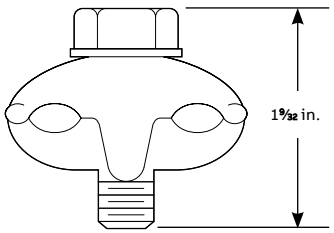
NOTE: Clamp is plated. For use with amerductor, aluminum or galvanized steel stranding.

	Both Grooves Unplated	
Cat. No.	**Max.**	**Min.**
K3	– 2/0 str. copper, 7/16 in. Copperweld*, 2A Copperweld*	#8 solid copper, 9-½D Copperweld*

*Trademark of Copperweld.
NOTE: Clamp is not plated. For copper-to-copper connections.

Diagrams





Insulation piercing connectors

Type IPC – Talon™

- Perform as a splice or tap for non-tension applications up to 600 volts depending on the size of the connector
- Eliminate need for conductor insulation stripping
- Self-insulated for hot line applications
- No taping required after installation
- For copper-to-copper, copper-to-aluminum and aluminum-to-aluminum applications
- For use on insulated conductors only
- Six-connector line covers the range from #10 AWG–500 kcmil

	Al or Cu conductor range (AWG/kcmil)				Dimensions (in.)		
Cat. no.	**Main**	**Tap**	**No. of bolts**	**Fig.**	**W**	**H**	**L**
IPC1102*	1/0–8 50–6	2–8 35–6	1	1	2 9/16	2	1 17/32
IPC4111	4/0–1/0 95–50	1/0–6 50–16	2	2	2 1/2	2	1 19/32
IPC4141	4/0–1/0 95–50	4/0–1/0 95–50	2	2	2 5/8	3 1/4	1 29/32
IPC5041*	500–350 240–185	4/0–4 90–25	1	1	2	2 1/2	2 1/8
IPC3535	350–4/0 185–95	350–4/0 185–95	2	2	2 1/16	2 1/2	2 1/8
IPC3541V	350–4/0 185–95	4/0–10 95–6	1	1	2 3/4	3	2 5/8

Diagrams

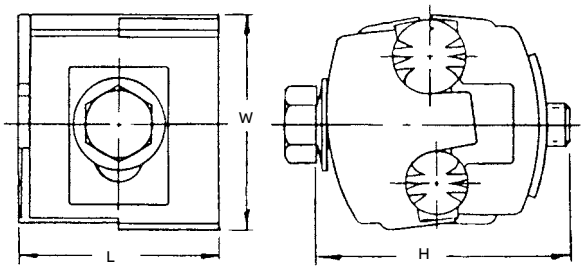


Fig. 1

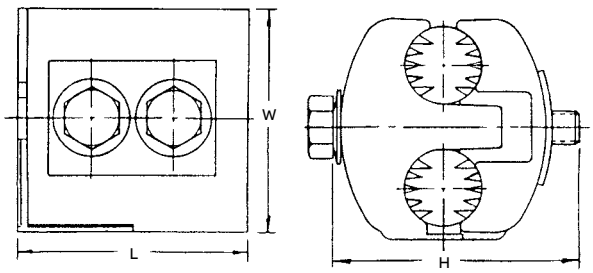


Fig. 2

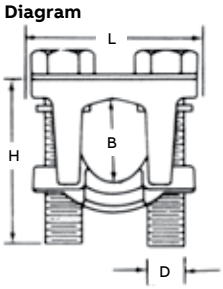
* 600 volt rating (All others 300 volts).

Two-bolt connectors

Type 2B – Two-bolt connectors without spacer

- Castings and bolts of high-strength copper alloy
- Removable neoprene washers capture each bolt in bottom casting, aiding installation

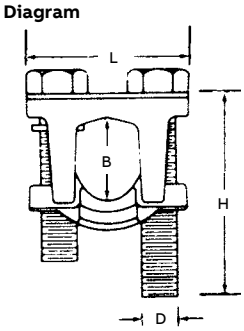
		Conductor range (AWG or kcmil)				Conductor diameter (B)		Bolt head	Dimensions (in.)		
		Main		Tap							
	Cat. no.	Max.	Min.	Max.	Min.	Max.	Min.	(in.)	L	H	D
Diagram	2B10	1/0 str.	2 str.	1/0 str.	10 sol.	0.746	0.394	½	1 5/16	1¾	5/16
	2B20BB	2/0 str.	2 str.	2/0 str.	8 sol.	0.838	0.420	½	1 5/16	1¼	5/16
	2B40	4/0 str.	1/0 str.	4/0 str.	6 sol.	1.056	0.530	9/16	1 23/32	1¾	⅜
	2B350	350	4/0 str.	350	4 sol.	1.362	0.726	¾	2⅛	2	½
	2B500	500	350	500	4 sol.	1.626	0.883	¾	2¼	2½	5/16
	2B800	800	600	800	2 sol.	2.062	1.149	¾	2½	2½	5/16
	2B1000	1000	750	1000	2 sol.	2.304	1.255	1 5/16	2 31/32	2¾	⅝



Type 2BX – One-piece two-bolt connectors without spacer

- Castings and bolts of high-strength copper alloy
- One-piece construction
- Free bolt is held in place with neoprene washer during installation
- One extra length bolt allows top casting to swing free over two conductors of maximum range

		Conductor range (AWG or kcmil)				Conductor diameter (B)		Bolt head	Dimensions (in.)		
		Main		Tap							
	Cat. no.	Max.	Min.	Max.	Min.	Max.	Min.	(in.)	L	H	D
Diagram	2B10X	1/0 str.	2 str.	1/0 str.	10 sol.	0.746	0.394	½	1 5/16	1½	5/16
	2B20X	2/0 str.	2 str.	2/0 str.	8 sol.	0.838	0.420	½	1 5/16	1½	5/16
	2B40X	4/0 str.	1/0 str.	4/0 str.	6 sol.	1.056	0.530	9/16	1 23/32	1⅞	⅜
	2B350X	350	4/0 str.	350	4 sol.	1.362	0.726	¾	2⅛	2¼	½
	2B500X	500	350	500	4 sol.	1.626	0.883	¾	2¼	2½	½
	2B800X	800	600	800	2 sol.	2.062	1.149	¾	2½	2¾	½
	2B1000X	1000	750	1000	2 sol.	2.304	1.255	15/16	2 31/32	3¼	⅝

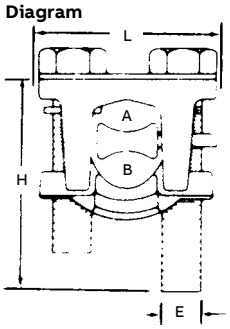


Two-bolt connectors

Type 2BW – One-piece two-bolt connectors with spacer

- For use on copper conductors only
- Castings and bolts of high-strength copper alloy; spacer of ductile, high-conductivity copper alloy
- One-piece construction; contoured spacer is ringed and swings easily over the conductor

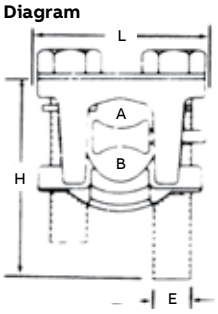
		Conductor range (AWG or kcmil)				Conductor diameter							
		Main		Tap		A		B		Bolt head	Dimensions (in.)		
	Cat. no.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	(in.)	L	H	E
Diagram	2B10W	1/0 str.	2 str.	1/0 str.	10 sol.	0.373	0.292	0.373	0.102	½	1 5/16	1⅝	5/16
	2B20W	2/0 str.	2 str.	2/0 str.	8 sol.	0.419	0.292	0.419	0.128	½	1 5/16	1⅝	5/16
	2B40W	4/0 str.	1/0 str.	4/0 str.	6 sol.	0.528	0.368	0.528	0.162	9/16	1 23/32	2⅛	⅜
	2B350W	350	4/0 str.	350	4 sol.	0.681	0.522	0.681	0.204	¾	2⅛	2½	½
	2B500W	500	350	500	4 sol.	0.813	0.679	0.813	0.204	¾	2¼	2¾	½
	2B800W	800	600	800	2 sol.	1.031	0.891	1.031	0.258	¾	2½	3¼	½
	2B1000W	1000	750	1000	2 sol.	1.152	0.997	1.152	0.258	15/16	2 31/32	3¾	⅝



Type 2BPW – One-piece two-bolt connectors with spacer

- For use on copper, aluminum and ACSR conductors

		Conductor range (AWG or kcmil)				Conductor diameter							
		Main		Tap		A		B		Bolt head	Dimensions (in.)		
	Cat. no.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	(in.)	L	H	E
Diagram	2B10PW	1/0–2	1/0–6	1/0 str.–2 str.	1/0 str.–2 str.	0.398	0.292	0.398	0.102	½	1 5/16	1⅝	5/16
	2B20PW	2/0–2	2/0–6	1/0 str.–2 str.	1/0 str.–2 str.	0.447	0.292	0.447	0.128	½	1 5/16	1⅝	5/16
	2B40PW	4/0–1/0	4/0–6	4/0 str.–1/0 str.	4/0 str.–1/0 str.	0.563	0.368	0.563	0.162	9/16	1 23/32	2⅛	⅜
	2B350PW	350–4/0	350–4	350–4/0	350–4 sol.	0.680	0.522	0.680	0.204	¾	2⅛	2½	½
	2B500PW	397.5–336.4	397.5–4	500–350	500–4 sol.	0.813	0.679	0.813	0.204	¾	2¼	2¾	½
	2B800PW	666.6–397.5	666.6–2	800–600	800–2 sol.	1.031	0.891	1.031	0.258	¾	2½	3¼	½
	2B1000PW	900–666.6	900–2	1000–750	1000–2 sol.	1.162	0.997	1.162	0.258	15/16	2 31/32	3¾	⅝



AMT connectors

The high quality and built-in flexibility of the Blackburn AMT connectors reduce the cost of field installations on splices, taps and terminations. They're easy and quick to install, eliminating the need for time-consuming taping and provide superior insulation that lasts the life of the connection.

Features and benefits

- PVC insulation eliminates failures and reduces outage costs
- UV-resistant material
- Compact design provides space efficiencies
- Dual-rated for copper and aluminum conductors (CSA certified and UL listed, for 600 V, 90 °C)

Black insulation cat. no.	Wire range (AWG or kcmil)	Dimensions (in.) Length	Width	Height	Screw type
Splices					
AMTSR10	1/0–#14 str.	2.68	0.81	1.55	Slotted
AMTSR250	250–#6 str.	4.00	1.06	2.00	5/16 Hex
AMTSR350	350–#6 str.	4.56	1.37	2.12	5/16 Hex
AMTSR500	500–#4 str.	6.18	1.61	2.56	5/16 Hex
Offset splices					
AMTTC4	#4–#14 str.	1.15	1.5	1.25	Slotted
AMTT10	1/0–#14 str.	1.63	1.63	1.63	3/16 Hex
AMTT20	2/0–#14 str.	1.89	1.68	1.86	Slotted
AMTT250	250–#10 str.	2.12	2.63	2.13	5/16 Hex
Cable blocks – One-way configuration — #4–#14 AWG stranded					
AMTS4142	#4–#14 str.	1.15	1.25	1.25	Slotted
AMTS4143	#4–#14 str.	1.63	1.25	1.25	Slotted
AMTS4144	#4–#14 str.	2.12	1.25	1.25	Slotted
AMTS4145	#4–#14 str.	2.61	1.25	1.25	Slotted
AMTS4146	#4–#14 str.	3.09	1.25	1.25	Slotted
Cable blocks – One-way configuration — 2/0–#14 AWG stranded					
AMTS20142	2/0–#14 str.	1.63	1.50	1.63	3/16 Hex
AMTS20143	2/0–#14 str.	2.35	1.50	1.63	3/16 Hex
AMTS20144	2/0–#14 str.	3.08	1.50	1.63	3/16 Hex
AMTS20145	2/0–#14 str.	3.80	1.50	1.63	3/16 Hex
AMTS20146	2/0–#14 str.	4.53	1.50	1.63	3/16 Hex
AMTS20147	2/0–#14 str.	5.26	1.50	1.63	3/16 Hex
AMTS20148	2/0–#14 str.	5.98	1.50	1.63	3/16 Hex

AMT connectors

Black insulation cat. no.	Wire range (AWG or kcmil)	Dimensions (in.) Length	Width	Height	Screw type
Cable blocks – One-way configuration – 250 kcmil–#6 AWG stranded					
AMTS25062	250–#6 str.	2.12	2.13	2.13	5/16 Hex
AMTS25063	250–#6 str.	3.09	2.13	2.13	5/16 Hex
AMTS25064	250–#6 str.	4.06	2.13	2.13	5/16 Hex
AMTS25065	250–#6 str.	5.03	2.13	2.13	5/16 Hex
AMTS25066	250–#6 str.	6.00	2.13	2.13	5/16 Hex
AMTS25067	250–#6 str.	6.98	2.13	2.13	5/16 Hex
AMTS25068	250–#6 str.	7.95	2.13	2.13	5/16 Hex
Cable blocks – One-way configuration – 350 kcmil–#10 AWG stranded					
AMTS35062	350–#10 str.	2.22	2.37	2.50	5/16 Hex
AMTS35063	350–#10 str.	3.24	2.37	2.50	5/16 Hex
AMTS35064	350–#10 str.	4.26	2.37	2.50	5/16 Hex
AMTS35065	350–#10 str.	5.28	2.37	2.50	5/16 Hex
AMTS35066	350–#10 str.	6.30	2.37	2.50	5/16 Hex
AMTS35067	350–#10 str.	7.31	2.37	2.50	5/16 Hex
AMTS35068	350–#10 str.	8.34	2.37	2.50	5/16 Hex
Cable blocks – One-way configuration – 500 kcmil–#6 AWG stranded					
AMTS50042	500–#6 str.	2.71	2.38	2.75	5/16 Hex
AMTS50043	500–#6 str.	3.99	2.38	2.75	5/16 Hex
AMTS50044	500–#6 str.	5.26	2.38	2.75	5/16 Hex
AMTS50045	500–#6 str.	6.53	2.38	2.75	5/16 Hex
AMTS50046	500–#6 str.	7.81	2.38	2.75	5/16 Hex
AMTS50047	500–#6 str.	9.08	2.38	2.75	5/16 Hex
AMTS50048	500–#6 str.	10.35	2.38	2.75	5/16 Hex
Cable blocks – Two-way configuration – #4–#14 AWG stranded					
AMTD4142	#4–#14 str.	1.15	1.50	1.25	Slotted
AMTD4143	#4–#14 str.	1.63	1.50	1.25	Slotted
AMTD4144	#4–#14 str.	2.12	1.50	1.25	Slotted
AMTD4145	#4–#14 str.	2.61	1.50	1.25	Slotted
AMTD4146	#4–#14 str.	3.09	1.50	1.25	Slotted
AMTD4147	#4–#14 str.	3.58	1.50	1.25	Slotted
AMTD4148	#4–#14 str.	4.07	1.50	1.25	Slotted
Cable blocks – Two-way configuration – #4–#14 AWG stranded					
AMTD20142	2/0–#14 str.	1.63	1.68	1.63	3/16 Hex
AMTD20143	2/0–#14 str.	2.35	1.68	1.63	3/16 Hex
AMTD20144	2/0–#14 str.	3.08	1.68	1.63	3/16 Hex
AMTD20145	2/0–#14 str.	3.80	1.68	1.63	3/16 Hex
AMTD20146	2/0–#14 str.	4.53	1.68	1.63	3/16 Hex
AMTD20147	2/0–#14 str.	5.26	1.68	1.63	3/16 Hex
AMTD20148	2/0–#14 str.	5.98	1.68	1.63	3/16 Hex
Cable blocks – Two-way configuration – 250 kcmil–#6 AWG stranded					
AMTD25062	250–#6 str.	2.12	2.64	2.13	5/16 Hex
AMTD25063	250–#6 str.	3.09	2.64	2.13	5/16 Hex
AMTD25064	250–#6 str.	4.06	2.64	2.13	5/16 Hex
AMTD25065	250–#6 str.	5.03	2.64	2.13	5/16 Hex
AMTD25066	250–#6 str.	6.00	2.64	2.13	5/16 Hex
AMTD25067	250–#6 str.	6.98	2.64	2.13	5/16 Hex
AMTD25068	250–#6 str.	7.95	2.64	2.13	5/16 Hex

AMT connectors

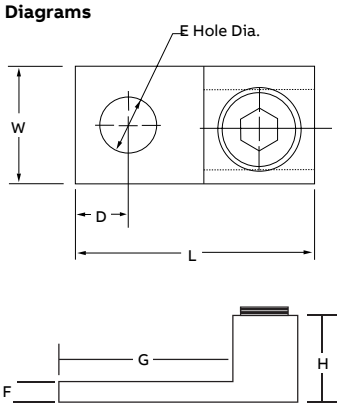
Black insulation cat. no.	Wire range (AWG)	Dimensions (in.) Length	Width	Height	Screw type
Cable blocks – Two-way configuration – 350 kcmil–#10 AWG stranded					
AMTD35062	350–#10 str.	2.22	3.00	2.50	⅜ Hex
AMTD35063	350–#10 str.	3.24	3.00	2.50	⅜ Hex
AMTD35064	350–#10 str.	4.26	3.00	2.50	⅜ Hex
AMTD35065	350–#10 str.	5.28	3.00	2.50	⅜ Hex
AMTD35066	350–#10 str.	6.30	3.00	2.50	⅜ Hex
AMTD35067	350–#10 str.	7.31	3.00	2.50	⅜ Hex
AMTD35068	350–#10 str.	8.34	3.00	2.50	⅜ Hex
Cable blocks – Two-way configuration – 500 kcmil–#4 AWG stranded					
AMTD50042	500–#4 str.	2.71	3.00	2.75	⅜ Hex
AMTD50043	500–#4 str.	3.99	3.00	2.75	⅜ Hex
AMTD50044	500–#4 str.	5.26	3.00	2.75	⅜ Hex
AMTD50045	500–#4 str.	6.53	3.00	2.75	⅜ Hex
AMTD50046	500–#4 str.	7.81	3.00	2.75	⅜ Hex
AMTD50047	500–#4 str.	9.08	3.00	2.75	⅜ Hex
AMTD50048	500–#4 str.	10.35	3.00	2.75	⅜ Hex
Cable blocks – Two-way configuration – 750–250 kcmil					
AMTD7502502	750–250	3.00	3.13	2.38	⅜ Hex
AMTD7502503	750–250	4.40	3.13	2.38	⅜ Hex
AMTD7502504	750–250	5.81	3.13	2.38	⅜ Hex
AMTD7502505	750–250	7.21	3.13	2.38	⅜ Hex
AMTD7502506	750–250	8.62	3.13	2.38	⅜ Hex
AMTD7502507	750–250	10.03	3.13	2.38	⅜ Hex
AMTD7502508	750–250	11.44	3.13	2.38	⅜ Hex

Dual-rated mechanical connectors

Type ADR–ALCÜL™ – Single conductor, one-hole mount

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- CSA certified and UL listed, AL9CU, 600 V rated
- All aluminum bodies
- Slotted screw on lugs up through 2/0 AWG str.; 5/16 socket screw on sizes 250 through 350 kcmil; 3/8 hex socket on sizes 500 kcmil and above

Diagrams



Cat. no.	Conductor range (AWG or kcmil) Max.	Min.	L	W	H	D	E	F	G
			Dimensions (in.)						
Slotted screw									
ADR6	6 str.	14 A	1 3/64	1/2	31/64	15/64	1/4	5/64	43/64
ADR2	2 str.	14 A	1 5/32	1/2	9/16	19/64	1/4	7/64	11/16
ADR11	1/0 str.	14 A	1 15/32	5/8	25/32	7/16	1/4	3/16	27/32
ADR21	2/0 str.	14 A	1 15/32	5/8	25/32	7/16	1/4	3/16	27/32
Socket screw									
ADR25	250	6 str.	2	1	1 1/8	15/32	5/16	1/4	1
ADR30	300	6 str.	2	1	1 1/8	15/32	5/16	1/4	1
ADR35	350	6 str.	2 1/4	1 1/8	1 1/4	1/2	3/8	1/4	1 1/8
ADR50	500	4 str.	2 13/16	1 1/2	1 9/16	3/4	3/8	5/16	1 19/32
ADR60	600	2 str.	3 3/16	1 1/2	1 9/16	13/16	3/8	7/16	1 13/16
ADR6004*	600 (2) 250	4 str. (2) 1/0 str.	2 13/16	1 3/8	1 13/16	5/8	3/8	5/16	1 1/2
ADR80	800	300	3 3/8	1 3/4	1 15/16	7/8	5/8	1/2	1 3/4
ADR99	1000	500	3 3/8	1 3/4	1 15/16	7/8	5/8	1/2	1 3/4

* UL and CSA not applicable.

Type ADR–ALCÜL – Anti-rotational connector

- Unique bottom rib keeps connector from turning
- Eliminates the need for excessive torque, which can damage large conductors
- Prevents connector loosening, even in heavy-vibration applications

Diagrams

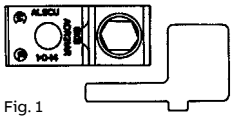


Fig. 1

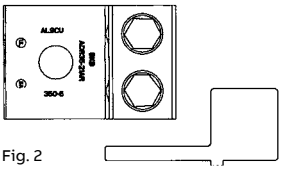


Fig. 2

Cat. no.	Conductor range (AWG or kcmil) Max.	Min.	Bolt hole (in.)	Figure
ADR21-AR	2/0	14	1/4	1
ADR30-AR	300	6	7/16	1
ADR35-AR	350	6	5/16	1
ADR60-AR	600	2	1/2	1
ADR35-21-AR	350	6	3/8	2
ADR60-21-AR	600	2	1/2	2

Dual-rated mechanical connectors

Type ADR–ALCÜL – Single conductor, two-hole mount*

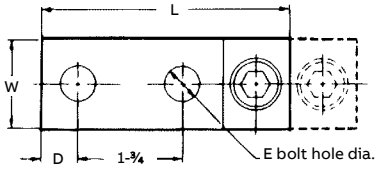
Fig. 1

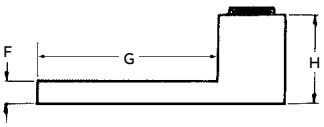
Fig. 2

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

		Conductor range Al or Cu (AWG or kcmil)							Dimensions (in.)	
Cat. no.	Figure	Max.	Min.	L	W	H	D	E	F	G
ADR35-12	1	350	6 str.	4¼	1¼	1⅜	⅝	½	5/16	3
ADR60-12D	2	600	2 str.	5 5/16	1½	1½	⅝	½	⅜	3 1/16
ADR80-12D	2	800	300	6 3/16	1¾	1⅞	⅝	½	9/16	3 7/16
ADR99-12D	2	1,000	350	6 3/16	1¾	1⅞	⅝	½	9/16	3 7/16

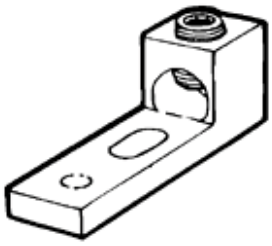
Diagrams





* NEMA spacing: 1¾ in. centers.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

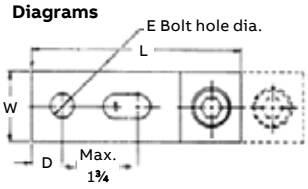
Type ADR–ALCÜL – Single conductor, switchgear mount

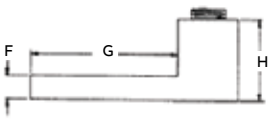


- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

	Conductor range Al or Cu (AWG or kcmil)							Dimensions (in.)	
Cat. no.	Max.	Min.	L	W	H	D	E	F	G
ADR35-12S	350	4 str.	4 11/16	1¼	1 9/16	23/32	½	7/16	3 5/16
ADR80-12DS	800	300	6 3/16	1⅝	1⅞	23/32	½	9/16	3 7/16

Diagrams





* NEMA spacing: 1¾ in. centers except ADR25-12S: 1 in. centers.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

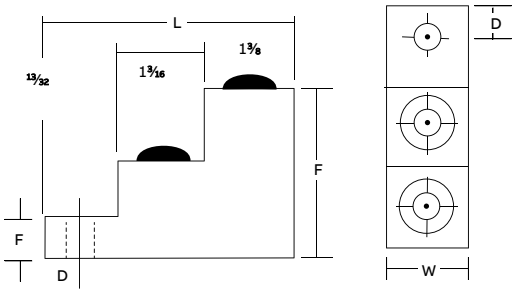
Dual-rated mechanical connectors

Type ASL–ALCÜL – Two conductors, one-hole mount

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

	Conductor range (AWG or kcmil)		Dimensions (in.)					
Cat. no.	Max.	Min.	L	W	H	D	F	Mtg. hole dia. (in.)
ASL30-21	300	6 str.	3	1⅛	2	15/32	½	5/16

Diagrams

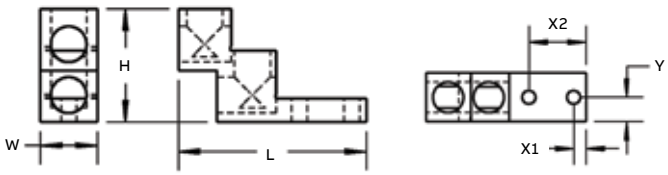


Type ASL–ALCÜL – Two conductors, two-hole mount

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

	Conductor range (AWG or kcmil)		Dimensions (in.)					
Cat. no.	Max.	Min.	L	W	H	X1	X2	Y1
ASL60-22	600	2 str.	4.91	1.50	2.96	0.375	1.75	0.75
ASL75-22	750	3/0 str.	4.91	1.69	2.96	0.375	1.75	0.84

Diagrams



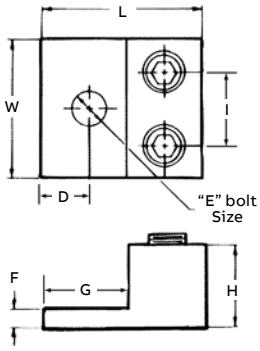
Dual-rated mechanical connectors

Type ADR–ALCÜL – Two conductors, one-hole mount

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

	Conductor range (AWG or kcmil)								Dimensions (in.)	
Cat. no.	Max.	Min.	L	W	H	D	E	F	G	I
ADR11-21	1/0 str.	14	1 15/32	1 7/32	25/32	7/16	1/4	3/16	27/32	35/64
ADR21-21	2/0 str.	14	1 15/32	1 1/4	25/32	27/64	1/4	3/16	27/32	21/32
ADR25-21	250	6 str.	2 9/16	1 41/64	1 3/16	7/8	3/8	1/4	1 9/16	13/16
ADR35-21	350	6 str.	2 7/8	1 59/64	1 1/4	7/8	1/2	1/4	1 3/4	61/64
ADR60-21	600	2 str.	3 3/16	2 13/32	1 9/16	5/8	1/2	7/16	1 13/16	1 7/32
ADR80-21	800	300	3 3/8	3 3/16	1 15/16	7/8	5/8	1/2	1 3/4	1 5/8
ADR99-21	1000	500	3 3/8	3 3/16	1 15/16	7/8	5/8	1/2	1 3/4	1 5/8

Diagrams



Type ADR–ALCÜL – Two conductors, two-hole mount*

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

		Conductor range (AWG or kcmil)								Dimensions (in.)	
Cat. no.	Figure	Max.	Min.	L	W	H	D	E	F	G	I
ADR35-22	1	350	6 str.	4 1/4	2 19/64	1 3/8	5/8	1/2	5/16	3	1 7/32
ADR60-22D	2	600	2 str.	5 5/16	2 3/4	1 1/2	5/8	1/2	3/8	3 1/16	1 7/16
ADR80-22D	2	800	300	6 3/16	3 1/2	1 7/8	5/8	1/2	9/16	3 1/16	1 13/16
ADR99-22D	2	1000	350	6 3/16	3 1/2	1 7/8	5/8	1/2	9/16	3 1/16	1 13/16

Diagrams

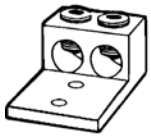


Fig. 1

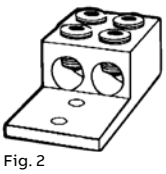
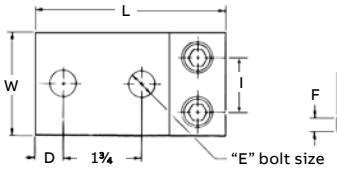
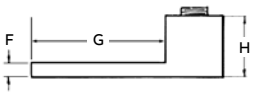


Fig. 2





* NEMA spacing: 1 3/4 in. centers.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

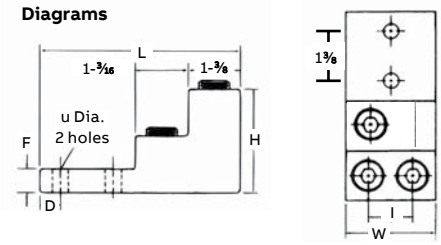
Dual-rated mechanical connectors

Type ASL–ALCÜL – Three conductors, two-hole mount

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

	Conductor range (AWG or kcmil)									Dimensions (in.)	
Cat. no.	Max.	Min.	L	W	H	F	D	I	X2	X1	Y
ASL60-32	600	2 str.	4 29/32	2½	3	¾	⅜	1 7/32	1.75	0.375	1.234

Diagrams

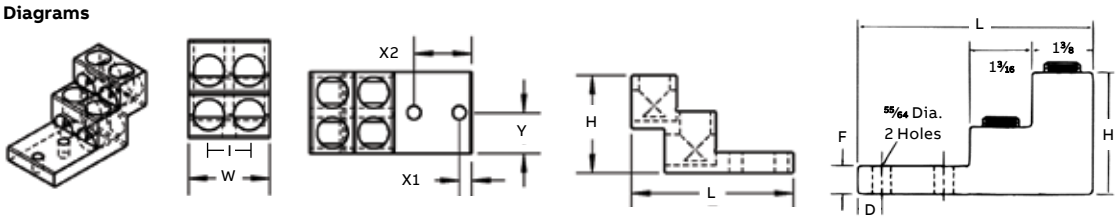


Type ASL–ALCÜL – Four conductors, two-hole mount

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

	Conductor range (AWG or kcmil)									Dimensions (in.)	
Cat. no.	Max.	Min.	L	W	H	F	D	I	X2	X1	Y
ASL60-42	600	2 str.	4 29/32	2½	3	¾	⅜	1 7/32	1.75	0.375	1.234
ASL75-42	750	3/0 str.	4 29/32	2 31/50	3	¾	⅜	1 5/16	1.75	0.375	1.31

Diagrams



Dual-rated mechanical connectors

Type ADR–ALCÜL – Three conductors, two-hole mount*

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- CSA certified and UL listed
- All aluminum bodies

		Conductor range (AWG or kcmil)									Dimensions (in.)
Cat. no.	**Figure**	**Max.**	**Min.**	**L**	**W**	**H**	**D**	**E**	**F**	**G**	**I**
ADR02-32	1	2 str.	14	2 3/16	1 5/8	5/8	11/32	5/16	3/16	1 11/16	9/16
ADR11-32	1	1/0 str.	14	2 29/32	2	7/8	11/32	3/8	1/4	2 5/32	45/64
ADR31-32	1	3/0 str.	6 str.	4	2 13/16	1 3/16	5/8	1/2	5/16	3	31/32
ADR25-32	1	250	6 str.	4 3/16	2 13/16	1 1/4	5/8	1/2	1/4	3 1/16	31/32
ADR35-32	1	350	6 str.	4 3/16	3 3/16	1 1/4	5/8	1/2	1/4	3 1/16	1 1/32
ADR50-32	1	500	4 str.	4 11/16	3 3/4	1 9/16	5/8	1/2	7/16	3 5/16	1 1/4
ADR60-32D	2	600	2 str.	5 5/16	4 3/16	1 1/2	5/8	1/2	3/8	3 1/6	1 7/16
ADR80-32	2	800	300	6 3/16	4 1/2	1 7/8	5/8	1/2	9/16	3 7/16	1 9/16
ADR99-32	2	1000	500	6 3/16	4 3/4	1 7/8	5/8	1/2	9/16	3 7/16	1 41/64

Diagrams

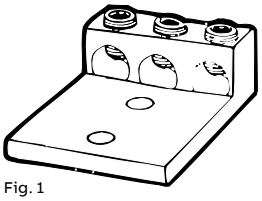


Fig. 1

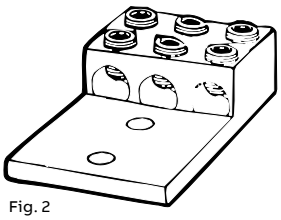
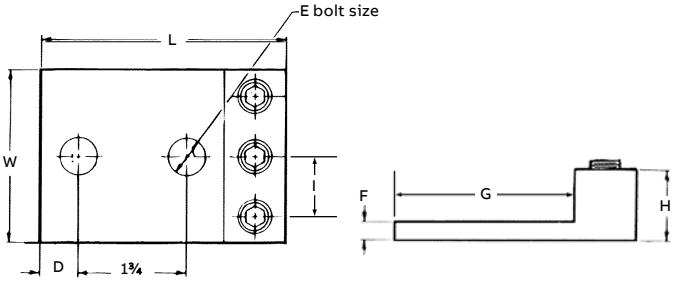


Fig. 2



* NEMA spacing: 1 3/4 in. centers except ADR02-32; 7/8 in. centers and ADR11-32; 1 in. centers.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

Dual-rated mechanical connectors

Type ADR–ALCÜL – Three conductors, four-hole mount**

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

		Conductor range (AWG or kcmil)									Dimensions (in.)
Cat. no.	**Figure**	**Max.**	**Min.**	**L**	**W**	**H**	**D**	**E**	**F**	**G**	**I**
ADR02-34	1	2 str.	14	2 3/16	1 5/8	5/8	11/32	5/16	3/16	1 11/16	9/16
ADR11-34	1	1/0 str.	14	2 29/32	2	7/8	11/32	3/8	1/4	2 5/32	45/64
ADR31-34	1	3/0 str.	6 str.	4	2 13/16	1 3/16	5/8	1/2	5/16	3	31/32
ADR25-34*	1	250	6 str.	4 3/16	2 13/16	1 1/4	5/8	1/2	1/4	3 1/16	31/32
ADR35-34*	1	350	6 str.	4 3/16	3 3/16	1 1/4	5/8	1/2	1/4	3 1/16	1 1/32
ADR50-34*	1	500	4 str.	4 11/16	3 3/4	1 9/16	5/8	1/2	7/16	3 5/16	1 1/4
ADR60-34D	2	600	2 str.	5 5/16	4 3/16	1 1/2	5/8	1/2	3/8	3 1/16	1 7/16
ADR80-34*	2	800	300	6 3/16	4 1/2	1 7/8	5/8	1/2	9/16	3 7/16	1 9/16
ADR99-34*	2	1000	500	6 3/16	4 3/4	1 7/8	5/8	1/2	9/16	3 7/16	1 41/64

Diagrams

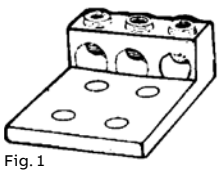


Fig. 1

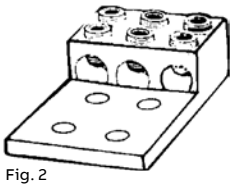
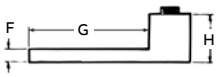
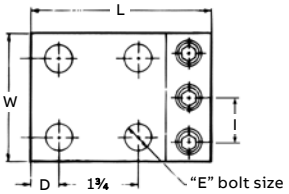


Fig. 2





* UL listed.
** NEMA spacing: 1 3/4 in. centers except ADR02-34; 7/8 in. centers and ADR11-34; 1 in. centers.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

Type ADR–ALCÜL – Four conductors, four-hole mount*

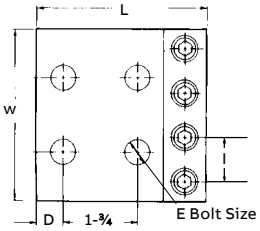
Fig. 1

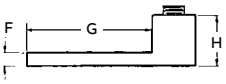
Fig. 2

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

		Conductor range (AWG or kcmil)									Dimensions (in.)
Cat. no.	**Figure**	**Max.**	**Min.**	**L**	**W**	**H**	**D**	**E**	**F**	**G**	**I**
ADR25-44	1	250	6 str.	4	4 1/16	1 3/16	5/8	1/2	5/16	3	1 3/64
ADR35-44	1	350	6 str.	4 1/4	4 23/32	1 3/8	5/8	1/2	5/16	3	1 7/32
ADR60-44D	2	600	2 str.	5 5/16	5 5/8	1 1/2	5/8	1/2	3/8	3 1/16	1 7/16
ADR80-44D	2	800	350	6 3/16	7 1/8	1 7/8	5/8	1/2	9/16	3 7/16	1 13/16

Diagrams





* NEMA spacing: 1 3/4 in. centers.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

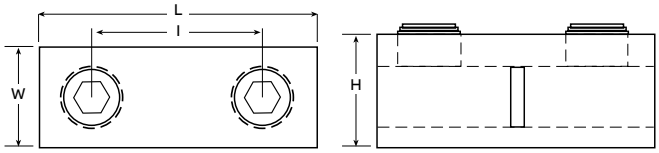
Dual-rated mechanical connectors

Type ASR–ALCÜL – Splice reducers with solid barrier wire stop

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

	Conductor range Al or Cu (AWG or kcmil)					Dimensions (in.)
Cat. no.	Max.	Min.	L	W	H	I
ASR0214*	2 str.	14	1¼	33/64	39/64	21/32
ASR1114*	1/0 str.	14	1½	39/64	23/32	51/64
ASR2506	250	6 str.	2⅛	55/64	31/32	1 7/64
ASR3506	350	6 str.	2⅜	1 1/32	1⅛	1¼
ASR7525**	750	250	6¼	1⅝	1¾	1⅝

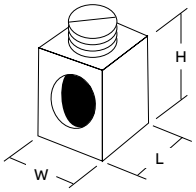
Diagrams



* Slotted screws.
** Two set screws per end. CSA not applicable.

Type BX–ALCÜL – Rectangular connectors

- Recognized component in accordance with UL standard – 90 °C rating
- Anti-rotational boss
- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

	Cat. No.	Conductor range (AWG or kcmil) Max.	Min.	Style & size of boss	Boss hole tapped	Dimensions (in.) L	W	H
Diagram 	BX0214	2	14 Cu 12 Al	Square 0.229 in.	10–32	15/32	15/32	9/16
	BX1114	1/0	14 Cu 12 Al	Square 0.229 in.	10–32	⅝	17/32	39/64

Tightening torque values for aluminum dual-rated socket screw connectors

AWG or kcmil size	Tightening torque (in.-lb) Screwdriver	Wrench	AWG or kcmil size	Tightening torque (in.-lb) Screwdriver	Wrench
12	20	75	4/0	–	200
10	20	75	250	–	200
8	20	75	350	–	200
6	35	100	500	–	300
4	35	100	600	–	300

AWG or kcmil size	Tightening torque (in.-lb) Screwdriver	Wrench	AWG or kcmil size	Tightening torque (in.-lb) Screwdriver	Wrench
2	50	125	700	–	300
1	50	125	750	–	300
1/0	50	150	800	–	300
2/0	50	150	1000	–	400
3/0	–	200	–	–	400

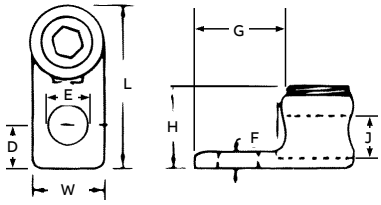
Copper mechanical connectors

Type L – Single conductor, one-hole mount

- For copper conductors
- Screws are plated steel
- Compact design
- Add suffix P to catalogue number for tin plating
- One-piece construction for strength and durability
- Excellent for confined quarters
- Cat. nos. L400 and L650 are cast from high strength bronze alloy
- Cat. nos. L35, L70, L125 and L250 are cold forged from pure electrolytic copper
- Other models are cast from high strength bronze alloy
- CSA certified and UL listed

Cat. no.		Conductor range (AWG or kcmil)								Dimensions (in.)	
Socket	Hex	Max.	Min.	L	W	H	F	D	J	E	G
L35*	–	8 str.	14 sol.	13/16	3/8	3/8	3/32	13/64	11/64	13/64	1/2
L70*	–	4 str.	14 sol.	1 1/8	17/32	35/64	3/32	9/32	9/32	9/32	21/32
L125BB**	L125H	1/0 str.	8 sol.	1 1/2	47/64	3/4	3/32	3/8	27/64	21/64	27/32
L250**	L250H	250	6 str.	1 61/64	15/16	1 1/16	1/8	29/64	5/8	13/32	1 3/32
L400-BB**	L400H	500	4/0 str.	3	1 13/32	1 15/32	9/32	5/8	7/8	9/16	1 5/8
L650BB**	L650H	1000	500	4	2	2 3/16	17/32	3/4	1 1/4	9/16	2

Diagrams

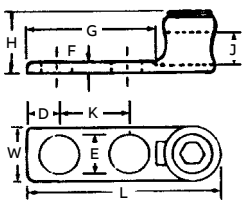


* Sizes L35 and L70 have screwdriver slot head screws only.
** Sizes L125 and up are Allen head screws.

Type L – Single conductor, two-hole mount

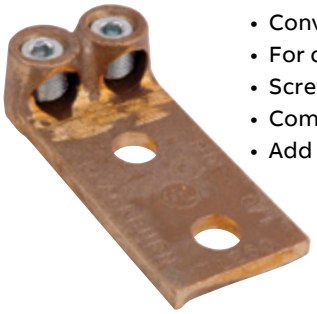
- Cast from high strength bronze alloy
- For use where large contact area is required to provide a more secure mounting
- CSA certified and UL listed

	Cat. no.		Conductor range (AWG or kcmil)								Dimensions (in.)		
	Socket	Hex	Max.	Min.	L	W	H	F	D	K	E	G	J
Diagrams	L1252	L1252H	1/0 str.	4 str.	2 13/16	25/32	13/16	3/16	7/16	1	11/32	2	27/64
	L2502	L2502H	250	1/0 str.	3	3	1 1/32	15/64	7/16	1	13/32	1 7/8	5/8
	L4002	L4002H	500	4/0 str.	3 3/8	3 3/8	1 15/32	5/16	7/16	1	13/32	1 15/16	57/64
	L6502-BB	L6502H	1000	500	4 15/16	4 15/16	2	3/8	9/16	1 1/2	9/16	2 3/4	1 1/4



Copper mechanical connectors

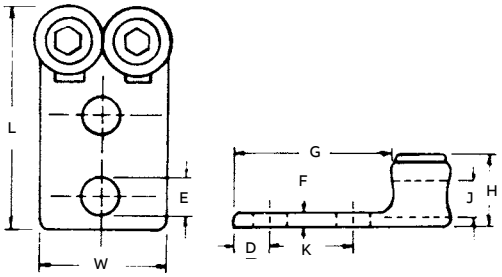
Type TL – Two conductors, two-hole mount



- Conveniently terminates parallel conductors
- For copper conductors
- Screws are plated steel
- Compact design
- Add suffix P to catalogue number for tin plating
- One-piece construction for strength and durability
- Excellent for confined quarters
- CSA certified and UL listed
- Cast from high strength bronze alloy

Cat. no.		Conductor range (AWG or kcmil)									Dimensions (in.)	
Socket	Hex	Max.	Min.	L	W	H	F	K	E	D	G	J
TL250	TL250H	250	1/0 str.	4 5/16	1 7/8	9/32	5/8	1 3/4	9/16	1 1/16	3 3/16	5/8
TL400	TL400H	500	4/0 str.	4 3/4	2 9/16	13/32	11/16	1 3/4	9/16	1 9/16	3	7/8
TL650*	TL650H	1000	500	5 9/16	3 1/4	9/16	5/8	1 3/4	9/16	2 3/16	3 3/8	1 1/4

Diagrams



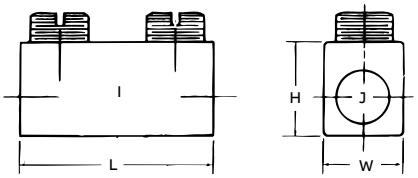
*Four hole NEMA tang on TL650.

Type S – Copper end-to-end splice connectors

- Cast of high strength bronze alloy
- Plated steel socket head set screws
- For copper conductors
- Compact design
- Add suffix P to catalogue number for tin plating
- One-piece construction for strength and durability
- Excellent for confined quarters
- CSA Certified and UL Listed

Cat. no.	Conductor range (AWG or kcmil) Max.	Min.	L	W	H	J	Dimensions (in.) I
S100BB	1 str.	4 str.	1 11/16	5/8	11/16	3/8	15/16
S225BB*	4 str.	1 str.	2 3/16	27/32	31/32	9/16	1 3/16
S400BB	500	4/0 str.	2 7/8	1 3/16	1 5/16	7/8	1 5/8

Diagrams



* Not UL listed.

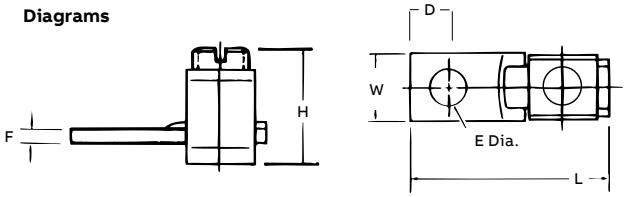
Copper mechanical connectors

Type STC – Copper single conductor, one-hole mount (straight tang)

- Uniquely designed pressure bar and notched V-bottom collar provide a vise-like grip between conductor and terminal
- CSA certified and UL listed for copper conductors
- Made of electrolytic seamless copper
- Screws are zinc plated steel

	Conductor range (AWG or kcmil)						Dimensions (in.)	
Cat. no.	**Max.**	**Min.**	**L**	**W**	**H**	**F**	**E**	**D**
STC1014*	10	14	1	5/16	1/2	5/64	5/32	3/16
STC0614	6 str.	14	19/64	3/8	11/16	5/64	13/64	7/32
STC0414	4 str.	14	1 1/4	1/2	37/32	3/32	17/64	1/4
STC0208	2 str.	8 str.	1 15/32	1/2	31/32	3/32	17/64	1/7
STC1102	1/0 str.	2 str.	1 15/16	5/8	1 1/4	1/8	17/64	7/16
STC3104	3/0 str.	4 str.	2 1/4	3/4	1 9/16	1/8	13/32	7/16
STC4102	4/0 str.	2 str.	2 3/8	1	1 21/32	1/8	11/32	1/2
STC3511	350	1/0 str.	3 1/4	1	1 5/8	3/16	13/32	5/8
STC5011	500	1/0 str.	3 7/8	1 1/2	1 13/16	3/16	13/32	15/16
STC9960	1000	600	5	2	2 5/8	1/4	17/32	1 1/8

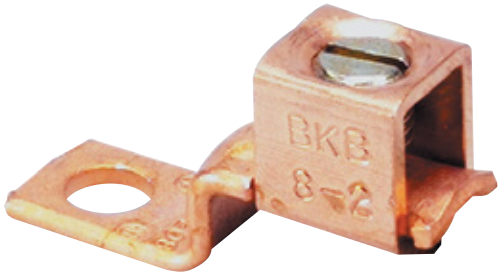
Diagrams



* CSA not applicable.

Copper mechanical connectors

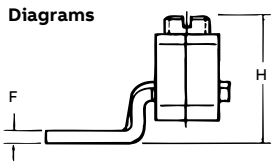
Type BTC – Copper single conductor, one-hole mount (offset tang)

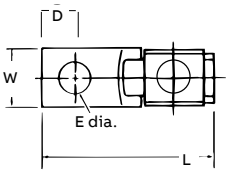


- CSA certified and UL listed, tested for copper conductors
- Made of electrolytic seamless copper
- Screws are zinc plated steel

	Conductor range (AWG or kcmil)							Dimensions (in.)
Cat. no.	**Max.**	**Min.**	**L**	**W**	**H**	**F**	**E**	**D**
BTC1014*	10	14	1	5/16	43/64	5/64	5/32	3/16
BTC0614	6 str.	14	1 3/32	3/8	25/32	5/64	13/64	7/32
BTC0208	2 str.	8 str.	1 15/32	1/2	27/32	3/32	17/64	1/4
BTC1102	1/0 str.	2 str.	1 25/32	5/8	1 13/32	1/8	17/64	7/16
BTC3104	3/0 str.	4 str.	2 3/64	3/4	1 9/16	1/8	13/32	7/16
BTC4102	4/0 str.	2 str.	2 9/16	1	1 61/64	1/8	11/32	1/2
BTC3511	350	1/0 str.	3 1/4	1	2 1/2	3/16	13/32	5/8
BTC5011	500	1/0 str.	4 1/4	1 1/2	2 21/32	3/16	13/32	15/16
BTC9960	1000	600	4 3/4	2	3 9/16	1/4	17/32	1 1/8

Diagrams





Direct burial splice kits

UFSK148DB

DBSK82

Fast, easy installation.
Blackburn direct burial splice kits make splicing cables up to 600 V for direct burial applications a snap.

UFSK148DB UF direct burial splice kit

- Splices 14 AWG to 8 AWG underground feeder (UF) cable (copper only)
- Rated for 600 V
- Convenient and simple to install — no special training required
- 4-in-1 connector design accommodates multi-conductor (up to 4), 3-phase + neutral or single-phase wiring systems
- Supplied insulated phase/connection barrier speeds installation by eliminating the need to insulate individual connectors
- Included heat-shrink insulation cover with adhesive ensures a proper watertight/ weatherproof seal overall
- UL listed for direct burial

DBSK82 direct burial splice kit

- Splices 8 AWG to 2 AWG copper or aluminum conductors (non-UF)
- Rated for 600 V
- High-strength aluminum alloy construction in a simple one-piece design
- Includes heavy-wall heat-shrink tubing with sealant for a watertight splice
- Withstands abrasions from direct burial in rocky soil
- Rated for operating temperatures to 90 °C (194 °F)
- UL listed for direct burial

Cat. no.	Description	Wire range (AWG)	Std. pkg. qty.
UFSK148DB*	UF direct burial splice kit	14–8	10
DBSK82	Direct burial splice kit (non-UF)	8–2	10

* CSA not applicable.

Competitive cross reference

Type H – High strength split-bolt connectors

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Anderson	Joslyn	Dossert	Eritech
9H	S-10	KS90	IK-10	C-10	J3657	DS-09F	ESB10
8H	S-8	KS15	IK-8	C-8	J3608	DS-1F	ESB8
8H3	SEL-8	–	SEL8S	C-8-L	–	–	–
6H	S-6	KS17	IK-6	C-6	J3606	DS-2F	ESB6
6H3	SEL-6	KS17-3	SEL6S	C-6-L	J3608	DS-2-3	–
4H	S-4	KS20	IK-4	C-4	J3604	DS-3F	ESB4
4H3	SEL-4	KS20-3	SEL4S	C-4-L	J3604	DS-3-3	–
3H	–	–	–	–	–	–	ESB3
3H3	–	–	–	–	–	–	–
2H	S-3	KS22	IK-3	C-2	J3602	DS-5F	ESB2
2H3	SEL-3	KS22-3	–	C-2-L	J3602	DS-5-3	–
1H	S-2	KS23	IK-2	C-1	–	DS-6F	–
1H3	SEL-2	–	SEL-2S	C-1-L	–	DS-6-3	–
10H	S-1/0	KS25	IK-1/0	C-1/0	J3610	DS-10F	ESB1/0
20H	S-2/0	KS26	IK-2/0	C-2/0	–	DS-13F	ESB2/0
30H	S-3/0	KL27	IK-3/0	C-3/0	–	DS-17	ESB4/0
40H	S-4/0-250	–	KS29	IK-250	C-4/0	DS-25C	ESB250
350M	S-350	KS31	IK-350	C-350	J3635	DS-35	ESB350
500M	S-500	KS34	IK-500	C-500	J2650	DS-50	ESB500
750M	S-750	KS39	IK-750	C-750	J3675	DS-75	ESB750
1000M	S-1000	KS44	IK-1000	C-1000	J3679	DS-100	–

Type HPS – Plated split-bolt connectors with spacer

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Anderson	Joslyn	Dossert	Eritech
9HPS	SW-1	–	–	–	–	–	–
8HPS	SW-2	–	–	–	–	–	ESBP8
6HPS	SW-3	KSU17	SK-6	–	–	DSNS2	ESBP9
4HPS	SW-4	KSU20	SK-4	–	–	DSNS3F	ESBP6
2HPS	SW-5	KSU22	SK-3	–	–	DSNS5F	ESBP2
1HPS	SW-6	KSU23	SK-2	–	–	DSNS6F	–
10HPS	SW-7	KSU25	SK-1/0	–	–	DSNS10F	ESBP1/0
20HPS	SW-8	KSU26	SK-2/0	–	–	DSNS13F	ESBP2/0
40HPS	SW-9A	KSU27	SK-3/0	–	–	DSNS25C	ESBP4/0
350HPS	SW-11	KSU31	SK-350	–	–	DSNS35	ESBP350
500HPS	SW-12	KSU34	SK-500	–	–	DSNS50	ESBP500
750HPS	SW-13	–	–	–	–	DSNS75	–
1000HPS	SW-14	–	–	–	–	DSNS100	–

Type APS – Aluminum dual-rated split-bolts

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Anderson	Joslyn	Dossert	Eritech
APS06	–	KSA-6	AK-6	–	–	–	ASBP6
APS04	–	KSA-4	AK-4	–	–	–	ASBP4
APS02	SW-6	KSA-2	AK-2	–	–	–	ASBP2
APS11	SW-7	KSA-1/0	AK-1/0	–	–	–	ASBP1/0
APS21	SW-8	KSA-2/0	AK-2/0	–	–	–	ASBP2/0
APS41	SW-9	KSA-4/0	AK-4/0	–	–	–	ASBP4/0
APS350	SW-11	KSA-350	AK-350	–	–	–	–
APS500	SW-12	KSA-500	AK-500	–	–	–	–

Competitive cross reference

Type IPC – Talon™ insulation piercing connectors

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Kupler
IPC1102	–	–	IPC-1/0-2	130001
IPC4111	–	–	IPC-4/0-1/0	130003
IPC4141	–	–	IPC-4/0-4/0	130004
IPC5041	–	–	IPC-500-4/0	130005
IPC3535	–	–	IPC-350-350	130012
IPC3541	–	–	IPC-350-4/0	130013

Type 2B – Two-bolt connectors without spacer

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Anderson	Joslyn	Dossert	Chance	Kearney
2B10	VT-0	–	–	K-1	–	DSU10	–	17280
2B20BB	VT-1	KVS26	–	K-2	–	DSU13	OOUC	16369
2B40	VT-2	KVS28	IKB-4/0	K-3	–	DSU21	–	–
2B350	VT-3	KVS31	IKB-350	K-4	–	DSU35	35UC	16371
2B500	VT-4	KVS34	IKB-500	K-5	–	DSU50	50UC	16372
2B800	VT-5	KVS40	IKB-800	K-6	–	DSU80	75UC	–
2B1000	VT-6	KVS44	IKB-1000	K-7	–	DSU100	100UC	16374

Type 2BX – One-piece two-bolt connectors without spacer

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Anderson	Joslyn	Dossert	Chance	Kearney
2B10X	VT-0L	–	–	–	–	–	–	–
2B20X	VT-1L	–	–	–	–	–	–	–
2B40X	VT-2L	–	–	–	–	–	–	–
2B350X	VT-3L	–	–	–	–	–	–	–
2B500X	VT-4L	–	–	–	–	–	–	–
2B800X	VT-5L	–	–	–	–	–	–	–
2B1000X	VT-6L	–	–	–	–	–	–	–

Type 2BPW – Plated two-bolt connector with spacer

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Anderson	Joslyn	Dossert	Chance	Kearney
2B10PW	VTA-0L	–	–	KR-1TP	–	DSUN10	–	–
2B20PW	VTA-1L	KVSU26	–	KR-2TP	–	DSUN13	–	–
2B40PW	VTA-2L	KVSU28	IKS-4/0	KR-3TP	–	DSUN21	–	–
2B350PW	VTA-3L	KVSU31	IKS-350	KR-4TP	–	DSUN35	–	–
2B500PW	VTA-4L	KVSU34	IKS-500	KR-5TP	–	DSUN50	–	–
2B800PW	VTA-5L	KVSU40	IKS-800	KR-6TP	–	DSUN80	–	–
2B1000PW	VTA-6L	KVSU44	IKS-1000	KR-7TP	–	DSUN100	–	–

Type 2BW – One-piece two-bolt connector with spacer

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Anderson	Joslyn	Dossert	Chance	Kearney
2B10W	VTW-0L	–	–	KR-1	–	DSUS10	–	–
2B20W	VTW-1L	KVSW26	–	KR-2	–	DSUS13	–	–
2B40W	VTW-2L	KVSW28	–	KR-3	–	DSUS21	–	–
2B350W	VTW-3L	KVSW31	–	KR-4	–	DSUS35	–	–
2B500W	VTW-4L	KVSW34	–	KR-5	–	DSUS50	–	–
2B800W	VTW-5L	KVSW40	–	KR-6	–	DSUS80	–	–
2B1000W	VTW-6L	KVSW44	–	KR-7	–	DSUS100	–	–

Competitive cross reference

Types L – Copper mechanical connectors, single conductor, one-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
L35	PNL-8	KA8C	SLU-35	31003	LU-08	D-35	SL081
L70	PNL-4	KA4C	SLU-70	31005	LU-04	D-70	SL041
L125	PNL-1/0	KA25	LO-0	31007	LU-1/0	D-10	SL211
L250	PNL-250	KA28	LO-250	31011	–	D-25	SL241
L400	PNL-500	KA34	LO-500	31015	LU-500	D-50	SL501
L650	PNL-1000	QA44B	LO-1000	31019	LU-1000	D-100	SL921
Types L – Copper mechanical connectors, single conductor, two-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
L1252	PNL-1/0-2	QA1C-2B	E-125	32007	–	–	SL212
L2502	PNL-250-2	QA28-2B	E-225	32011	–	–	SL242
L4002	PNL-500-2	QA35-2B	E-400	32015	–	–	S1502
L6502	PNL-1000-2	QA44-2B	E-650	32019	–	–	SL922
Types TL – Copper mechanical connectors, two conductors, two-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
TL250	–	Q2A31-2N	LU-4	32013BD	–	D2-25	SLL302
TL400	SLL504	Q2A34-2N	–	32015BD	LU2-500-2N	D2-50	SLL504
TL650	–	Q2A44-2N	–	32019BD	–	D2-100	SLL924
Type STC – Copper single conductor, one-hole mount, straight tang							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
STC1014	–	–	SLS25	–	–	–	–
STC0614	–	KPA8CUP	SLS35	–	–	–	–
STC0414	–	KPA4CUP	SAS70	–	–	–	–
STC0208	–	–	SLS70	–	–	–	–
STC1102	–	KPA25UP	SLS125	–	–	–	–
STC3104	–	–	SLS175	–	–	–	–
STC4102	–	KPA28UP	SLS225	–	–	–	–
STC3511	–	–	SLS300	–	–	–	–
STC5011	–	KPA34UP	SLS400	–	–	–	–
STC9960	–	–	SLS650	–	–	–	–
Type BTC – Copper single conductor, one-hole mount, offset tang							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
BTC1014	SLU-25	–	SLU-25	–	–	–	–
BTC0614	SLU-35	KPA8C	SLU-35	–	–	G-35-1	–
BTC0208	SLU-70	KPA4C	SLU-70	–	–	G-70-1	–
BTC1102	SLU-125	KPA25	SLU-125	–	–	G-125-1	–
BTC3104	SLU-175	–	SLU-175	–	–	–	–
BTC4102	SLU-225	KPA28	SLU-225	–	–	G-225-1	–
BTC3511	SLU-300	–	SLU-300	–	–	–	–
BTC5011	SLU-400	KPA34	SLU-400	–	–	G-400-1	–
BTC9960	SLU-650	–	SLU-650	–	–	G-650-1	–

Competitive cross reference

Type ADR ALCÜL – Aluminum dual-rated connectors, single conductor, one-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ADR6	LA-6	KA6U	TA-6-S	–	–	–	–
ADR2	LA-2	KA2U	TA-2	–	–	–	–
ADR11	LA-0	KA-26U	TA-0	–	–	–	–
ADR21	LA-2/0	KA26U	TA-2/0	–	–	–	–
ADR25	LA-250	KA29U	TA-250	–	–	–	–
ADR30	–	KA30U	TA-300	–	–	–	–
ADR35	LA-350	KA31U	TA-350	–	–	–	–
ADR50	LA-500	KA34U	TA-500	–	–	–	–
ADR60	LA-600	KA36U	TA-600	–	–	–	–
ADR6004	–	–	TA-500S	–	–	–	–
ADR80	LA-800	KA40U	TA-800	–	–	–	–
ADR99	LA-1000	KA44U	TA-1000	–	–	–	–
Type ADR ALCÜL – Aluminum dual-rated connectors, two conductors, one-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ADR11-21	L2A-0	K2A25U	AU-0	–	–	–	–
ADR21-21	–	K2A28U	AU-2/0	–	–	–	–
ADR25-21	L2A-250	K2A29U	AU-250	–	–	–	–
ADR35-21	L2A-350	K2A31U	AU-350	–	–	–	–
ADR60-21	L2A-600	K2A36U	AU-600	–	–	–	–
ADR80-21	L2A-800	K2A40U	AU-800	–	–	–	–
Type ADR ALCÜL – Aluminum dual-rated connectors, three conductors, two-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ADR02-32	–	K3A20-2	T3A2-2	–	–	–	–
ADR11-32	–	K3A25U2	T3A2-0	–	–	–	–
ADR31-32	–	K3A27-2N	T3A2-3/0	–	–	–	–
ADR25-32	L3A-250-2	K3A29U-2N	T3A2-250	–	–	–	–
ADR35-32	L3A-350-2	K3A31U-2N	T3A2-350	–	–	–	–
ADR50-32	L3A-500-2	K3A36U-2N	T3A2-500	–	–	–	–
ADR60-32D	–	KK3A-36U-2N	T3A2-600N	–	–	–	–
ADR80-32	L3A-800-2	K3A40U-2N	T3A2-800N	–	–	–	–
ADR99-32	–	KK3A-44U2N	T3A2-1000N	–	–	–	–
Type ADR ALCÜL – Aluminum dual-rated connectors, four conductors, four-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ADR25-44	LA4M4-250	K4A29U-4N	T4A4-250N	–	–	–	–
ADR35-44	LA4M4-350	K4A31U-4N	T4A4-350N	–	–	–	–
ADR60-44D	LA4M4-600	KK4A36U-4N	T4A4-600N	–	–	–	–
ADR80-44D	LA4M4-800	KK4A40U-4N	T4A4-800N	–	–	–	–
Type ASL ALCÜL – Aluminum dual-rated connectors, two conductors, one-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ASL30-21	PB2-300	K11A30U	PB2300	–	–	–	–
Type ASL ALCÜL – Aluminum dual-rated connectors, two conductors, two-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ASL60-22	PB2-600	K11A-36U-2	–	–	–	–	–
ASL75-22	PB2-750	–	–	–	–	–	–

Competitive cross reference

Type ASL ALCÜL – Aluminum dual-rated panelboard lug, three conductors, two-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ASL60-32	–	K21A36U-2	PB3-600	–	–	–	–
Type ASR ALCÜL – Splice reducers with solid barrier wire stop							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ASR0214	–	–	SPA-2	–	–	–	–
ASR1114	–	–	SPA-0	–	–	–	–
ASR2506	–	–	SPA-250	–	–	–	–
ASR3506	–	–	SPA-350	–	–	–	–
ASR7525	–	–	SPA-750	–	–	–	–