

#### Mechanical Lugs Verses Compression Lugs Connector Comparison Chart

The variety of connectors available can be broken down into two general categories:

- Mechanical lugs
- Compression lugs

The following chart has been prepared in an effort to clarify the difference between these two categories.

Mechanical Lugs vs	s Compression Lugs
Mechanical Lugs	Compression Lugs
<u>SLU-225-1</u> <u>LA-250-1</u>	BLU-1S-1 BLU-035D-1
Range taking and non-range taking. For pipe, cable, bar shapes etc.	Range taking and non-range taking. For cable conductors only.
Many designs are universal for copper and aluminum.	Separate designs required for aluminum, copper, or aluminum to copper.
Salvageable. Conductors can be removed and replaced if necessary. Wiring changes easily made.	Not salvageable. Conductor and connector must be cut off and scrapped if necessary.
Short runs and specials easily handled by manufacturer with better delivery.	Non-standard designs and modifications may be difficult to supply.
Taping depends on design.	Easily taped.
Installed cost comparable on small jobs and higher on large volume jobs.	Installed cost generally lower, particularly when large quantities are involved.
No special tools to install. Can use screwdriver, pliers, or wrench.	Special tools and dies required. If wrong tool or die is used, poor joint results.



### nniúnion<sup>™</sup> Mechanical Connectors

#### **Lug Tongue Connections**

The tongue of a compression or a mechanical lug is, basically, a bus bar that connects to another bus bar.

The illustration to the right shows a typical bar connection and the type of hardware used.

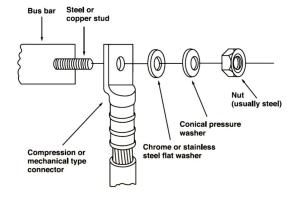


Table 1 to the right shows the recommended tightening torques for silicon bronze, stainless steel, galvanized steel, and lubricated aluminum alloy hardware.

NOTE: Torque values presently recommended by NEMA-CCI 2018 specification.

	Table 1 - Tightening Torques											
		Nominal Torque Values										
Bolt Diameter	Silicon Bronze, Stainles	Galvanized, or ss Steel	Aluminum Alloy (Lubricated)									
	ft-lbs	inch-lbs	ft-lbs	inch-lbs								
1/4	7	80	_	-								
5/16	15	180	_	_								
3/8	20	240	14	168								
1/2	40	480	25	300								
5/8	55	660	40	480								
3/4	87	1050	54	650								

For optimum efficiency, it is necessary that the correct bolt, nut, and washer combination be used with the correct combination of conductor materials. Table 2 shows acceptable methods of joining different combinations of bus bar. Where different combinations of metals are being joined, a follow-up device such as a conical pressure washer is usually recommended if one, or both, bus materials are soft drawn aluminum. If both bars are hard drawn,

large flat washers will suffice regardless of the bolt materials. Other considerations which should be taken into account when selecting hardware are corrosion and vibration. For example, if severe corrosion is anticipated, non-corrosive materials such as stainless steel or silicon bronze, should be selected in preference to galvanized steel. If vibration is anticipated, the use of locking washers should be considered.

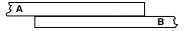


	Table 2	2 - Joining Bus E	Bar Methods		
If "A" bar is	Copper	Aluminum	Steel	Aluminum	Steel
And if "B" bar is	Copper Copper		Copper	Aluminum	Aluminum
Hard Drawn Bus such as aluminum alloy  Bolt  Large Flat Washer  Nut  Split or tooth lock washer	(1) Silicon Bronze (2) Stainless Steel	(1) Silicon Bronze (2) Aluminum (3) Stainless Steel	(1) Silicon Bronze (2) Stainless Steel	(1) Aluminum (2) Stainless Steel (3) Silicon Bronze, Plated	(1) Aluminum (2) Stainless Steel
Soft Drawn Bus such as EC-H13 Aluminum  Large Flat Conical Pressure Washer  Nut Large Flat Washer	(1) Silicon Bronze (2) Stainless Steel	(1) Silicon Bronze (2) Aluminum (3) Stainless Steel (4) Conical Pressure Washer (Plated or Stainless Steel)	(1) Silicon Bronze (2) Stainless Steel	(1) Aluminum (2) Stainless Steel (3) Silicon Bronze, Plated (4) Conical Pressure Washer (Plated or Stainless Steel)	(1) Aluminum (2) Stainless Steel (3) Conical Pressure Washer (Plated or Stainless Steel)

"(1)" denotes preferred hardware usage.



### 1-Opening Aluminum Dual-Rated Mechanical Lugs LA Series

#### **Overview**

The LA series is a heavy-duty high-strength aluminum dual-rated connector that makes a reliable electrical connection to either an aluminum or copper conductor. These lugs have a single opening and are designed for easy installation while maintaining a low resistance high strength connection.

#### **Features**

- Use with copper or aluminum conductors
- Manufactured from high strength aluminum alloy extrusion
- Electro-tin plated to ensure minimum contact resistance and corrosion protection when used with copper wire
- Connectors are rated for 600V, 90°C [194°F] applications
- The use of oxide inhibitor is recommended for all aluminum terminations



LA-250-1



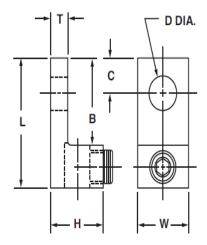
	1-Opening Aluminum Dual-Rated Mechanical Lugs - LA Series																																								
Part Number	Price	Qty	Туре	Voltage Rating	Number of Openings	Conductor Material and Conductor Range	Tightening Torque	Conductor Bolt Style	Number of Mounting Holes	Mounting Bolt Size	Material	Drawing Link																													
<u>LA-0-1</u>	\$1.25					Copper (1) 14-1/0 AWG (2)14-4 AWG Aluminum (1) 12-1/0 AWG (2) 12-4 AWG	CU: 50 lb•in AL: 35 lb•in	Slotted set screw		1/4in		<u>PDF</u>																													
<u>LA-2-1</u>	\$0.75				1		Copper (1) 14-2 AWG (2) 14-10 AWG Aluminum (1) 12-2 AWG (2) 10-12 AWG	45 lb•in	Slotted set screw		1/4in		<u>PDF</u>																												
LA-2/0-1	\$1.25											Copper (1) 14-2/0 AWG Aluminum (1) 8-2/0 AWG	120 lb•in	3/16in hex		1/4in		PDF																							
LA-250-1	\$2.75						Copper (1) 6 AWG-250 MCM Aluminum (1) 6 AWG-250 MCM	275 lb•in	5/16in hex		5/16in	Tin-plated	PDF																												
LA-350-1	\$4.50	1	Box	600V		Copper (1) 6 AWG-350 MCM Aluminum (1) 6 AWG-350 MCM	275 lb•in	5/16in hex	1	3/8in	aluminum	PDF																													
LA-500-1	\$6.75											_	_	_			_	-	_	_	_		_												Copper (1) 4 AWG-500 MCM Aluminum (1) 4 AWG-500 MCM	375 lb•in	3/8in hex		3/8in		PDF
LA-6-1	\$0.50																								Copper (1) 14-4 AWG Aluminum (1) 8-4 AWG	35 lb•in	Slotted set screw		1/4in		PDF										
LA-600-1	\$8.50					Copper (1) 2 AWG-600 MCM Aluminum (1) 2 AWG-600 MCM	500 lb•in	1/2in hex		3/8in		PDF																													
<u>LA-800-1</u>	\$12.25					Copper (1) 300-800 MCM Aluminum (1) 300-800 MCM	500 lb•in	1/2in hex		5/8in		PDF																													

Note: Use same conductor type, Copper or Aluminum, per opening. Do not mix conductor type in an opening.



### 1-Opening Aluminum Dual-Rated Mechanical Lugs LA Series

1-0pe	ning Alumi	num Dual-F	Rated Mech	ianical Lug	s - LA Serie	es Dimensi	ons
			Approxi	mate Dimensions	in [mm]		
Part Number	L	W	Н	Т	В	С	D (Dia.)
<u>LA-0-1</u>	1.46	0.63	0.79	0.19	0.84	0.44	0.27
	[37.08]	[16.00]	[20.26]	[4.82]	[21.33]	[11.17]	[6.85]
<u>LA-2-1</u>	1.16	0.50	0.55	0.11	0.69	0.31	0.27
	[29.46]	[12.70]	[13.97]	[2.79]	[17.52]	[7.87]	[6.85]
<u>LA-2/0-1</u>	1.46	0.63	0.79	0.19	0.84	0.44	0.27
	[37.08]	[16.00]	[20.26]	[4.82]	[21.33]	[11.17]	[6.85]
<u>LA-250-1</u>	2.00	1.00	1.12	0.25	1.00	0.47	0.33
	[50.80]	[25.40]	[28.44]	[6.35]	[25.40]	[11.93]	[8.38]
<u>LA-350-1</u>	2.25	1.13	1.25	0.25	1.13	0.50	0.41
	[57.15]	[28.70]	[31.75]	[6.35]	[28.70]	[12.70]	[10.41]
<u>LA-500-1</u>	2.81	1.50	1.57	0.31	1.59	0.87	0.41
	[71.37]	[38.10]	[39.87]	[7.87]	[40.38]	[22.09]	[10.41]
<u>LA-6-1</u>	1.06	0.50	0.50	0.09	0.68	0.25	0.27
	[26.92]	[12.70]	[12.70]	[2.28]	[17.27]	[6.35]	[6.85]
<u>LA-600-1</u>	3.19	1.50	1.57	0.44	1.81	0.87	0.41
	[81.02]	[38.10]	[39.87]	[11.17]	[45.97]	[22.09]	[10.41]
LA-800-1	3.37	1.75	1.94	0.50	1.75	0.87	0.66
	[85.59]	[44.45]	[49.27]	[12.70]	[44.45]	[22.09]	[16.76]





### 2-Opening Aluminum Dual-Rated Mechanical Lugs L2A Series

#### **Overview**

The L2A series is a heavy-duty high strength aluminum dual-rated connector that makes a reliable electrical connection to either an aluminum or copper conductor. These lugs have 2 openings and are designed for easy installation while maintaining a low resistance high strength connection.

#### **Features**

- For use with copper or aluminum conductors
- Manufactured from high strength aluminum alloy extrusion
- Electro-tin plated to ensure minimum contact resistance and corrosion protection
- Connectors are rated for 600V, 90°C [194°F] applications
- The use of oxide inhibitor is recommended for all aluminum terminations



L2A-250-1



		-	2- <b>O</b> pe	ening <i>F</i>	\luminu	m Dual-Rated I	Mechanic	al Lugs - L	2A Seri	es		
Part Number	Price	Qty	Туре	Voltage Rating	Number of Openings	Conductor Material and Conductor Range	Tightening Torque	Conductor Bolt Size	Number of Mounting Holes	Mounting Bolt Size	Material	Drawing Link
<u>L2A-0-1</u>	\$2.00					Copper (1) 14 to 1/0 AWG Aluminum (1) 8 to 1/0 AWG	40 lb•in	Slotted set screw		1/4in		<u>PDF</u>
<u>L2A-2/0-1</u>	\$2.25			600V		Copper (1) 14 to 2/0 AWG Aluminum (1) 8 to 2/0 AWG	120 lb•in	3/16in hex		1/4in		PDF
<u>L2A-250-1</u>	\$5.75	1	Box		2	Copper (1) 6 AWG-250 MCM Aluminum (1) 6 AWG-250 MCM	225 lb•in	5/16in hex	1	3/8in	Aluminum- tin plated	<u>PDF</u>
<u>L2A-350-1</u>	\$7.75					Copper (1) 6 AWG-350 MCM Aluminum (1) 6 AWG-350 MCM	225 lb•in	5/16in hex		1/2in		<u>PDF</u>
<u>L2A-600-1</u>	\$13.25					Copper (1) 2 AWG-600 MCM Aluminum (1) 2 AWG-600 MCM	400 lb•in	1/2in hex		1/2in		<u>PDF</u>

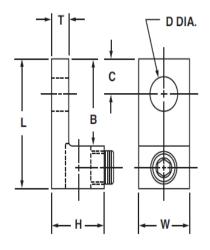
Note: Use same conductor type, Copper or Aluminum, per opening. Do not mix conductor type in an opening.

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**Mechanical Connectors** 

# 2-Opening Aluminum Dual-Rated Mechanical Lugs L2A Series

2-Ope	2-Opening Aluminum Dual-Rated Mechanical Lugs - L2A Series Dimensions												
	Approximate Dimensions in [mm]												
Part Number	L	W1	Н	Т	В	С	D (Dia.)						
<u>L2A-0-1</u>	1.46	1.22	0.79	0.19	0.84	0.44	0.27						
	[37.08]	[30.98]	[20.06]	[4.82]	[21.33]	[11.17]	[6.85]						
<u>L2A-2/0-1</u>	1.46	1.25	0.79	0.19	0.84	0.42	0.27						
	[37.08]	[31.75]	[20.06]	[4.82]	[21.33]	[10.66]	[6.85]						
<u>L2A-250-1</u>	2.56	1.66	1.19	0.25	1.56	0.87	0.39						
	[65.02]	[42.16]	[30.22]	[6.35]	[39.62]	[22.09]	[9.90]						
<u>L2A-350-1</u>	2.87	1.91	1.22	0.25	1.75	0.87	0.56						
	[72.89]	[48.54]	[30.98]	[6.35]	[44.45]	[22.09]	[14.22]						
<u>L2A-600-1</u>	3.19	2.41	1.57	0.44	1.81	0.63	0.53						
	[81.02]	[61.12]	[39.87]	[11.17]	[45.97]	[16.00]	[13.46]						





### Copper Offset Tongue Mechanical Lugs SAU & SLU Series

#### **Overview**

The SAU and SLU series is copper mechanical lug with an offset tongue. The concave pressure bar and V-bottom collar design assure positive contact and a reliable electrical connection to the copper conductor. These lugs have a single opening and are designed for easy installation for a wide variety of industrial applications.

#### **Features**

- Manufactured from electrolytic copper for maximum conductivity and strength
- Unique design of the concave pressure bar and V-bottom collar assures positive contact and firm, permanent grip
- Use with copper conductors only
- Offset tongue for joining a wide range of cable to equipment pads or bars
- Plated steel set screws resist corrosion



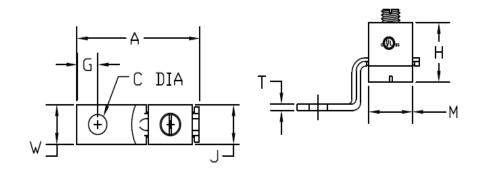
SLU-225-1



			Co	pper Of	fset To	ngue Mechanic	al Lugs - SAl	J & SLU	Series			
Part Number	Price	Qty	Туре	Amperage Rating	Number of Openings	Conductor Material and Conductor Range	Tightening Torque	Conductor Bolt Style	Number of Mounting Holes	Mounting Bolt Size	Material	Drawing Link
<u>SAU-70-1</u>	\$2.00			70A		Copper (1) 14 AWG solid (1) 4 AWG stranded	14-10 AWG: 20 lb•in 8 AWG: 25 lb•in 6-4 AWG:35 lb•in	Slotted set screw		1/4in		PDF
<u>SLU-125-1</u>	\$3.50			125A		Copper (1) 8 AWG solid (1) 1/0 AWG stranded	120 lb•in	3/16in hex		1/4in		PDF
<u>SLU-175-1</u>	\$5.50		Offset	175A		Copper (1) 4 AWG stranded (1) 3/0 AWG stranded	120 lb•in	3/ Toll1 flex	1	3/8in	Copper- electrolytic	PDF
<u>SLU-225-1</u>	\$10.00	1	tongue	225A	1	Copper (1) 6 AWG stranded (1) 4/0 AWG stranded	150 lb•in	7/32in hex		5/16in		PDF
<u>SLU-35-1</u>	\$1.25			35-50A		Copper (1) 14 AWG solid (1) 6 AWG stranded	14-10 AWG: 20 lb•in 8 AWG: 25 lb•in 6 AWG: 35 lb•in	Slotted pan head		#10		PDF
<u>SLU-70-1</u>	\$2.25			70-90A		Copper (1) 8 AWG solid (1) 2 AWG stranded	8 AWG: 40 lb•in 6-4 AWG: 45 lb•in 3 AWG: 50 lb•in 2 AWG:50 lb•in	Slotted set screw		1/4in		PDF

# Copper Offset Tongue Mechanical Lugs SAU & SLU Series

	Copper Offset Tongue Mechanical Lugs - SAU & SLU Series Dimensions												
	Approximate Dimensions in [mm]												
Part Number	А	W	G	C (Dia.)	Т	M	Н	J					
<u>SAU-70-1</u>	1.38	0.50	0.26	0.27	0.08	0.43	0.55	0.39					
	[35.05]	[12.70]	[6.60]	[6.85]	[2.03]	[10.92]	[13.97]	[9.90]					
<u>SLU-125-1</u>	1.95	0.63	0.33	0.27	0.12	0.60	0.82	0.63					
	[49.53]	[16.00]	[8.38]	[6.85]	[3.04]	[15.24]	[20.82]	[16.00]					
<u>SLU-175-1</u>	2.20	0.75	0.43	0.41	0.12	0.73	1.04	0.71					
	[55.88]	[19.05]	[10.92]	[10.41]	[3.04]	[18.54]	[26.41]	[18.03]					
SLU-225-1	2.62	0.98	0.48	0.35	0.12	0.98	1.16	0.77					
	[66.54]	[24.89]	[12.19]	[8.89]	[3.04]	[24.89]	[29.46]	[19.55]					
<u>SLU-35-1</u>	1.17	0.38	0.21	0.20	0.06	0.43	0.48	0.31					
	[29.71]	[9.65]	[5.33]	[5.08]	[1.52]	[10.92]	[12.19]	[7.87]					
<u>SLU-70-1</u>	1.55	0.50	0.26	0.27	0.08	0.49	0.64	0.47					
	[39.37]	[12.70]	[6.60]	[6.85]	[2.03]	[12.44]	[16.25]	[11.93]					



### Copper Straight Tongue Mechanical Lugs SAS & SLS Series

#### **Overview**

The SAS and SLS series are copper mechanical lugs with a compact straight tongue design. These lugs have a single opening and are designed for easy installation for a wide variety of industrial applications.

#### **Features**

- Manufactured from electrolytic copper for maximum conductivity and strength
- For use in power and grounding applications
- Use with copper conductors only
- Plated steel set screws resist corrosion
- UL 467 listed and UL 486A-B listed

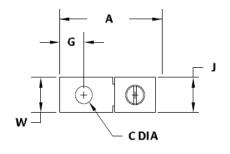


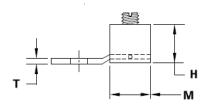
**SAS-70-1** 



	Copper Straight Tongue Mechanical Lugs - SAS & SLS Series												
Part Number	Price	Qty	Туре	Amperage Rating	Number of Openings	Conductor Material and Conductor Range	Tightening Torque	Conductor Bolt Style	Number of Mounting Holes	Mounting Bolt Size	Material	Drawing Link	
<u>SAS-70-1</u>	\$1.75	4	Straight	70A	1	Copper (1) 14-4 AWG	14-10 AWG: 20 lb•in 8 AWG: 25 lb•in 6-4 AWG: 35 lb•in	Slotted set screw	4	1/4in	Copper-	<u>PDF</u>	
<u>SLS-35-1</u>	\$1.50	'	tongue	35-50A	'	Copper (1) 14-6 AWG	14-10 AWG: 13 lb•in 8 AWG: 25 lb•in 6 AWG: 25 lb•in	Slotted pan head	ı	#10	electrolytic	PDF	

	Copper Straight Tongue Mechanical Lugs - SAS & SLS Series Dimensions												
De dell'ester	Approximate Dimensions in [mm]												
Part Number	А	W	G	C (Dia.)	Т	М	Н	J					
<u>SAS-70-1</u>	1.26 [32.04]	0.50 [12.70]	0.38 [9.65]	0.27 [6.85]	0.08 [2.03]	0.49 [12.44]	0.54 [13.71]	0.44 [11.17]					
<u>SLS-35-1</u>	1.00 [25.40]	0.37 [9.39]	0.24 [6.09]	0.20 [5.08]	0.06 [1.52]	0.37 [9.39]	0.47 [11.93]	0.34 [8.63]					







### Aluminum Dual-Rated Panelboard Mechanical Lugs PB Series

#### **Overview**

The PB series is a heavy-duty high strength aluminum dual-rated connector that makes a reliable electrical connection to either an aluminum or copper conductor. These lugs feature 2, 3, or 4 openings and a stacked space saving design for easy installation while maintaining a low resistance high strength connection.

#### **Features**

- Use with copper or aluminum conductors
- Space saving design allows for 2, 3, or 4 openings
- Manufactured from high strength aluminum alloy extrusion
- Electro-tin plated to ensure minimum contact resistance and corrosion protection when used with copper wire
- Rated for 600V, 90°C [194°F] applications
- The use of oxide inhibitor is recommended for all aluminum terminations



PB3-600D1-1



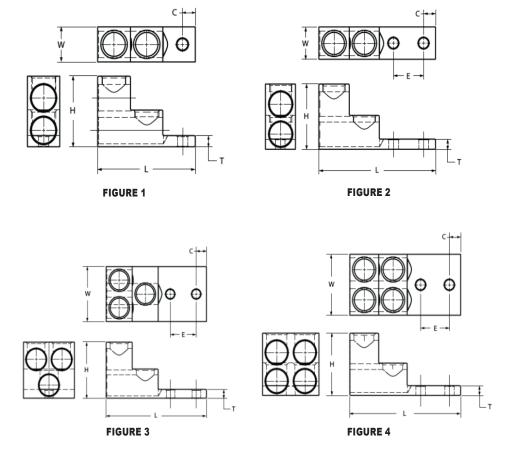
		Al	uminum	Dual-	Rated F	Panelboard Me	chanical	Lugs - I	PB Serie	S											
Part Number	Price	Qty	Туре	Voltage Rating	Number of Openings	Conductor Material and Conductor Range	Tightening Torque	Conductor Bolt Style	Number of Mounting Holes	Mounting Bolt Size	Material	Drawing Link									
PB2-350S-1	\$21.50				2	Copper (1) 6 AWG-350 MCM Aluminum (1) 6 AWG-350 MCM	375 lb•in		1	5/16in	_	PDF									
PB2-600D1-1	\$41.50				2	Copper (1) 2 AWG-600 MCM Aluminum (1) 2 AWG-600 MCM	500 lb•in		2			PDF									
PB2-750D1-1	\$47.50				2	Copper (1) 1/0 AWG-750 MCM Aluminum (1) 1/0 AWG-750 MCM	620 lb•in	2	2			PDF									
PB3-600D1-1	\$59.50	1	Panelboard	600V	3	Copper (1) 2 AWG-600 MCM Aluminum (1) 2 AWG-600 MCM	500 lb•in	5/16 in hex	2	2/0:	Aluminum- tin plated	PDF									
PB3-750D1-1	\$72.00													3	Copper (1) 1/0 AWG-750 MCM Aluminum (1) 1/0 AWG-750 MCM	620 lb•in	1	2	3/8in		PDF
PB4-600D1-1	\$59.50				4	Copper (1) 2 AWG-600 MCM Aluminum (1) 2 AWG-600 MCM	500 lb•in		2			PDF									
PB4-750D1-1	\$73.75				4	Copper (1) 1/0 AWG-750 MCM Aluminum (1) 1/0 AWG-750 MCM	620 lb•in		2			PDF									

Note: Use same conductor type, Copper or Aluminum, per opening. Do not mix conductor type in an opening.

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### Aluminum Dual-Rated Panelboard Mechanical Lugs PB Series

Aluminum Dual-Rated Panelboard Mechanical Lugs - PB Series Dimensions									
Part Number	Figure Number	Approximate Dimensions in [mm]							
		L	W	Н	Т	С	E		
PB2-350S-1	1	2.99 [75.94]	1.00 [25.40]	2.01 [51.05]	0.31 [7.87]	0.39 [9.90]	-		
PB2-600D1-1	2	4.94 [125.47]	1.50 [38.10]	2.99 [75.94]	0.76 [19.30]	0.39 [9.90]	1.38 [35.05]		
PB2-750D1-1	2	4.94 [125.47]	1.57 [39.87]	2.99 [75.94]	0.76 [19.30]	0.39 [9.90]	1.38 [35.05]		
PB3-600D1-1	3	4.94 [125.47]	2.68 [68.07]	2.99 [75.94]	0.76 [19.30]	0.39 [9.90]	1.38 [35.05]		
PB3-750D1-1	3	4.94 [125.47]	2.83 [71.88]	2.99 [75.94]	0.76 [19.30]	0.39 [9.90]	1.38 [35.05]		
PB4-600D1-1	4	4.94 [125.47]	2.68 [68.07]	2.99 [75.94]	0.76 [19.30]	0.39 [9.90]	1.38 [35.05]		
PB4-750D1-1	4	4.94 [125.47]	2.83 [71.88]	2.99 [75.94]	0.76 [19.30]	0.39 [9.90]	1.38 [35.05]		



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## **PENDUNION**<sup>™</sup> Mechanical Connectors

#### Aluminum Neutral Bars NA Series

#### **Overview**

The NA series aluminum neutral bars are manufactured from high strength aluminum alloy and tin plated to maintain a low resistance high strength dualrated connection. These neutral bars are designed for easy installation, can have up to 20 circuits on a single bar, and can be used in a variety of neutral and grounding applications.

#### **Features**

- For use in neutral and grounding applications
- Manufactured from high strength aluminum alloy
- Tin plated
- Screws are made of mild steel and plated
- Dual-rated for copper or aluminum conductors
- UL 467 listed



NA-409-1





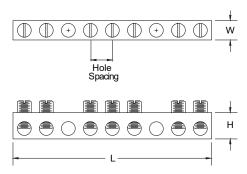
Aluminum Neutral Bars - NA Series									
Part Number	Price	Qty	Number of Openings	Number of Circuits	Mounting Hole Position	Conductor Material and Conductor Range	Tightening Torque	Material	Drawing Link
NA-401-1	\$1.00		3	2	2				PDF
NA-402-1	\$1.25		5	4	3				PDF
NA-403-1	\$1.50		6	5	3			Tin-plated aluminum	PDF
NA-404-1	\$1.75		7	6	4				PDF
NA-405-1	\$1.50		6	4	1 and 4				PDF
NA-406-1	\$1.75		7	5	1 and 7	Copper	Copper		PDF
NA-407-1	\$1.75		7	5	2 and 6	14-4 AWG stranded 14-8 AWG solid	14-8 AWG 20 lb•in 6-4 AWG 31 lb•in		PDF
NA-408-1	\$2.00		8	6	4 and 7	Aluminum	Aluminum		PDF
NA-409-1	\$2.25		9	7	3 and 7	8-4 AWG stranded 12-8 AWG solid	14-8 AWG 20 lb•in 6-4 AWG 31 lb•in		PDF
<u>NA-410-1</u>	\$2.75		11	9	1 and 11	12 07 117 0 00110	0 1741/0 01 15 111		PDF
<u>NA-411-1</u>	\$3.00	1	12	10	1 and 12				PDF
NA-412-1	\$3.50		14	12	1 and 14				PDF
NA-413-1	\$4.25		17	15	1 and 17		nded 8 AWG 40 lb•in 6-4 AWG 45 lb•in 2 AWG 50 lb•in Copper 14-10 AWG 35 lb•in 8-2/0 AWG 120 lb•in		PDF
NA-414-1	\$5.50		22	20	1 and 22				PDF
<u>NA-416-1</u>	\$4.25		12	10	3 and 11	Aluminum 8-2 AWG stranded 12-8 AWG solid			PDF
<u>NA-417-1</u>	\$3.25		3	2	2	Copper 14-2/0 AWG stranded			PDF
NA-418-1	\$5.50		5	3	2 and 4	14-8 AWG solid			PDF
<u>NA-419-1</u>	\$9.00		8	6	1 and 8	Aluminum 8-2/0 AWG stranded 12-8 AWG solid	14-10 AWG 35 lb•in 8 AWG 50 lb•in 6-2/0 AWG 120 lb•in		PDF

Note: Use same conductor type, Copper or Aluminum, per opening. Do not mix conductor type in an opening.



#### **Aluminum Neutral Bars NA Series**

Aluminum	Neutral Ba	ars - NA S	eries Dim	ensions	
Part Number	Approxin	Hala Oncainn			
rari Nulliber	L	W	Н	Hole Spacing	
NA-401-1	0.95	0.33	0.44	0.31	
	[24.13]	[8.38]	[11.17]	[7.87]	
NA-402-1	1.57	0.33	0.44	0.31	
	[39.87]	[8.38]	[11.17]	[7.87]	
NA-403-1	1.88 [47.75]	0.33 [8.38]	0.44 [11.17]	0.31	
NA-404-1	2.25	0.33	0.44	0.31	
	[57.15]	[8.38]	[11.17]	[7.87]	
NA-405-1	1.88	0.33	0.44	0.31	
	[47.75]	[8.38]	[11.17]	[7.87]	
NA-406-1	2.25	0.33	0.44	0.31	
	[57.15]	[8.38]	[11.17]	[7.87]	
NA-407-1	2.25	0.33	0.44	0.31	
	[57.15]	[8.38]	[11.17]	[7.87]	
NA-408-1	2.56	0.33	0.44	0.31	
	[65.02]	[8.38]	[11.17]	[7.87]	
NA-409-1	2.87	0.33	0.44	0.31	
	[72.89]	[8.38]	[11.17]	[7.87]	
NA-410-1	3.50	0.33	0.44	0.31	
	[88.90]	[8.38]	[11.17]	[7.87]	
<u>NA-411-1</u>	3.81	0.33	0.44	0.31	
	[96.77]	[8.38]	[11.17]	[7.87]	
NA-412-1	4.43	0.33	0.44	0.31	
	[112.52]	[8.38]	[11.17]	[7.87]	
NA-413-1	5.37	0.33	0.44	0.31	
	[136.39]	[8.38]	[11.17]	[7.87]	
NA-414-1	6.93	0.33	0.44	0.31	
	[176.02]	[8.38]	[11.17]	[7.87]	
NA-416-1	4.83	0.38	0.50	0.40	
	[122.68]	[9.65]	[12.70]	[10.16]	
NA-417-1	1.75	0.63	0.75	0.60	
	[44.45]	[16.00]	[19.05]	[15.24]	
NA-418-1	2.95	0.63	0.75	0.60	
	[74.93]	[16.00]	[19.05]	[15.24]	
NA-419-1	4.75	0.63	0.75	0.60	
	[120.65]	[16.00]	[19.05]	[15.24]	





#### **Copper Neutral Bars NC** Series

#### **Overview**

The NC series copper neutral bars are manufactured from high strength copper. These neutral bars are designed for easy installation, can have up to 13 circuits on a single bar and can be used in a variety of neutral and grounding applications.

#### **Features**

- Manufactured from high strength copper
- For use in neutral and grounding applications
- Use with copper conductors only
- Screws are made of mild steel and plated
- UL 467 listed



NC-420-1





	Copper Neutral Bars - NC Series									
Part Number	Price	Qty	Number of Openings	Number of Circuits	Mounting Hole Position	Conductor Material and Conductor Range	Tightening Torque	Material	Drawing Link	
NC-420-1	\$4.00		6	4	1 and 6			Copper	PDF	
NC-421-1	\$4.50		7	5	1 and 7				PDF	
NC-422-1	\$5.25		8	6	1 and 8	Copper	Copper		PDF	
NC-423-1	\$9.00		14	12	1 and 14	14-4 AWG stranded 14-8 AWG solid	14-8 AWG 20 lb•in 6-4 AWG 31 lb•in		PDF	
NC-424-1	\$9.75	1	15	13	3 and 13				PDF	
NC-425-1	\$9.75	1	15	13	6 and 11	1			PDF	
NC-428-1	\$9.00		8	6	2 and 7	Copper 14-2 AWG stranded 14-8 AWG solid	Copper 14-8 AWG 20 lb•in 6-4 AWG 45 lb•in 2 AWG 50 lb•in		PDF	

Copper Neutral Bars - NC Series Dimensions							
Part Number	Approxim	Hole Spacing					
	L	W	Н	g			
NC-420-1	1.94	0.33	0.44	0.31			
	[49.27]	[8.38]	[11.17]	[7.87]			
NC-421-1	2.25	0.33	0.44	0.31			
	[57.15]	[8.38]	[11.17]	[7.87]			
NC-422-1	2.56	0.33	0.44	0.31			
	[65.02]	[8.38]	[11.17]	[7.87]			
NC-423-1	4.43	0.33	0.44	0.31			
	[112.52]	[8.38]	[11.17]	[7.87]			
NC-424-1	4.74	0.33	0.44	0.31			
	[120.39]	[8.38]	[11.17]	[7.87]			
NC-425-1	4.74	0.33	0.44	0.31			
	[120.39]	[8.38]	[11.17]	[7.87]			
NC-428-1	3.25	0.38	0.50	0.40			
	[82.55]	[9.65]	[12.70]	[10.16]			

