

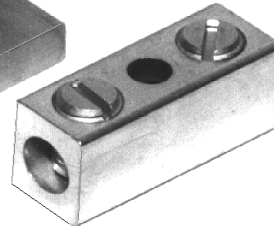
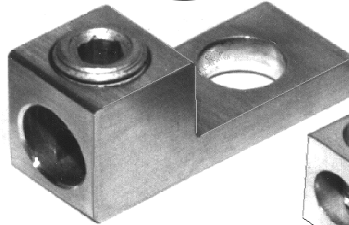
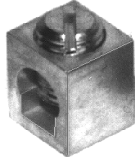
# IHI Connectors



®

[IHICONNECTORS.COM](http://IHICONNECTORS.COM)

®



## We manufacture Custom and Standard Electrical Wire Connectors.

- On time delivery. ✓
- Certified quality to the print. ✓
- Priced to keep you coming back. ✓



### ANY QUESTIONS?

Call Charles "Chas" Ridley  
to discuss your needs: 440-951-7186  
ext. 103 Fax: 440-951-1071  
e-mail: Charles Ridley: [cRidley@ihinet.com](mailto:cRidley@ihinet.com)

WAREHOUSE & ASSEMBLY

MFG. PLANT



IHI Connectors ®, International Hydraulics Inc.  
7638 St. Clair Avenue, Mentor, OH 44060-5236

## MISSION STATEMENT

**To be the industry leader in the application of custom made automatic, multiple rotating tool, transfer machining of non-ferrous extruded shapes for electrical connectors.**

**Our customers are medium to large volume manufacturers and distributors. We specialize in the Electrical Industry.**

**We provide:**

- Design and Build of Special Equipment with which to serve our customers needs in-house.
- Just-In-Time and Flexible Delivery Schedules for low, medium and high volume production.
- Certified Quality driven by computerized in-process SPC and ISO 9000 conformant quality systems.
- Pricing combined with Service Levels, which provide value beyond our competitors' reach.
- Design-For-Manufacturing Engineering Services.
- Prototyping Services.
- Assembly services to our customers' requirements.
- USA(UL/ANSI), Canada (CSA) and Mexico (ANCE) Electrical Standards testing service laboratory.

The strategic advantage employed by IHI to achieve its mission: The Company employees' ability to conceive, design, build, program, tool, run, maintain and improve upon, specialized Computer Controlled Equipment optimized for machining and assembly of customers' low, medium and high volume parts.

The company applies this advantage in an atmosphere of competitive team spirit and of continuous improvement in safety, quality, cost reduction, and environmental. IHI recycles all waste fluids.

## COMPANY PROFILE



1924 -2004

Incorporated in 1977 by founder and mathematics graduate Ned H Shiflett, (1924-2004) the business started operations in 1981. IHI initially produced hydraulic drilling and tapping self-feeder units and built special machinery for a variety of industrial customers. Using his prior experience in the electrical connector industry, Mr. Shiflett quickly established the Company as a custom machining house for electrical connectors. Having grown steadily since its first year of operations, IHI Connectors® is now a valuable partnership resource for large and small OEM's and distributors requiring service and quality in a very competitively priced market sector. The Company operates in 32,000 square feet of plant and warehouse with about 50 employees.



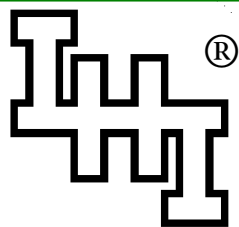
Charles Ridley joined the Company in 1993, and became Mr. Shiflett's partner in 1996. Bringing with him a BSME and a background in machine tools, manufacturing, and sales, IHI Connectors® is able to continue its thrust into advanced technology special machinery to serve its connector customers unusually well. Mr. Shiflett retired in 2002 after setting up IHI as an Employee Owned Company via an ESOP (Employee Stock Ownership Plan).

Materials: • Aluminum Alloys • Copper Alloys • Brass Alloys  
Products: • Power Lugs • Fuse lugs • Box Connectors • Wire Splicers • Grounding lugs  
• PCB to wire lugs • Power distribution Blocks Wire Sizes: 14 AWG to 1000 MCM

### **IHI Connectors® International Hydraulics Inc.**

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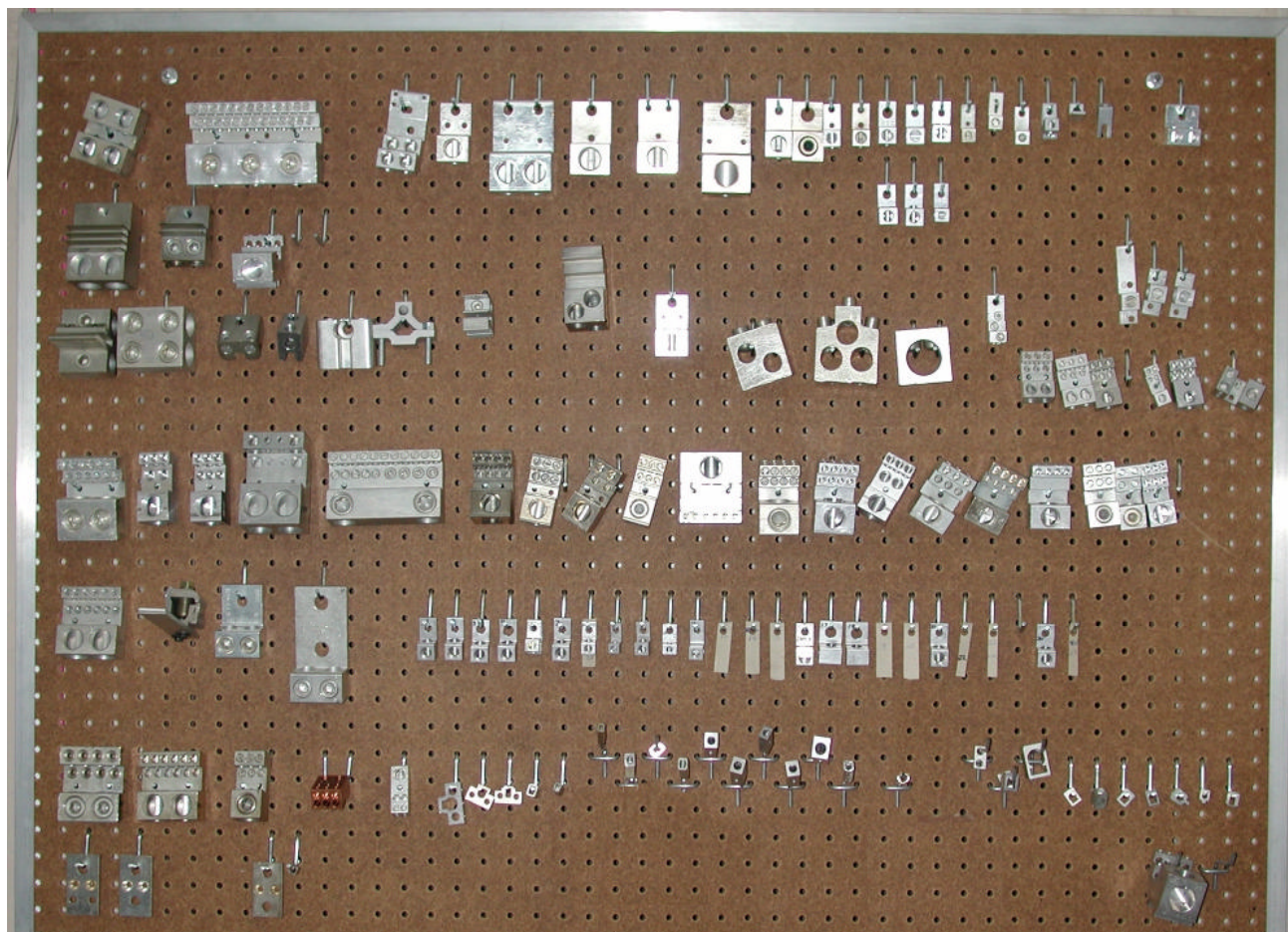
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# Connectors

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## SAMPLE BOARD OF TYPICAL IHI PRODUCTION CAPABILITY



### ANY QUESTIONS?

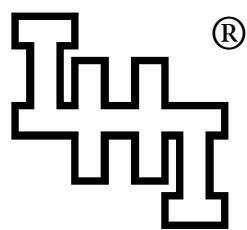
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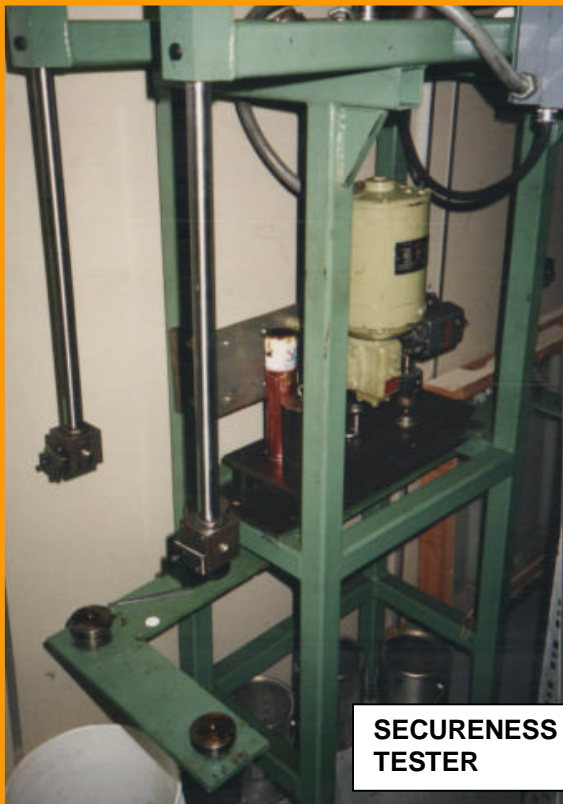
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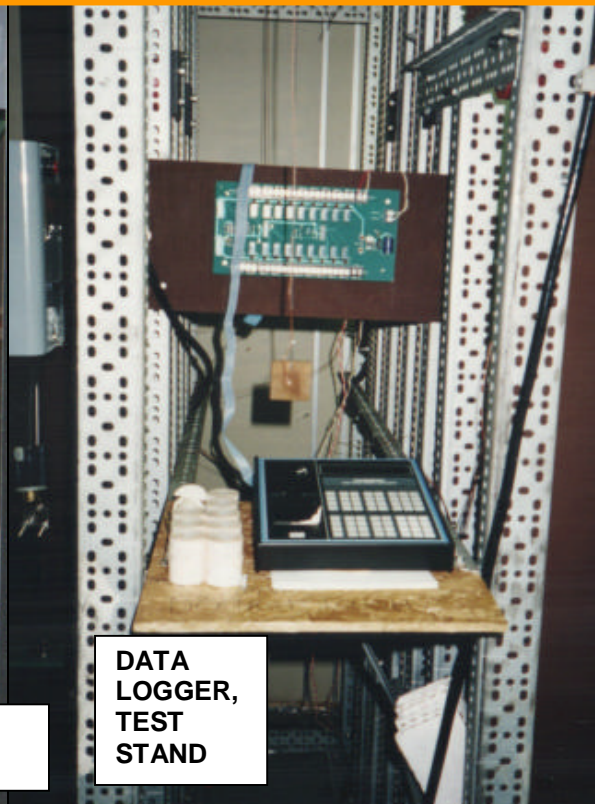


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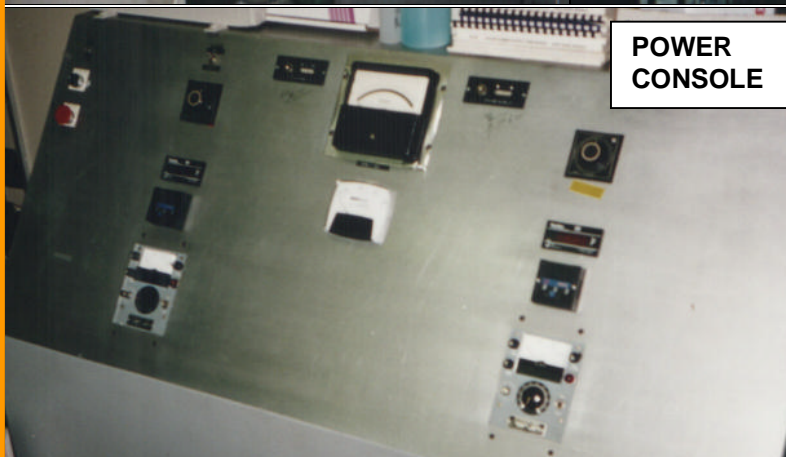
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**SECURENESS  
TESTER**



**DATA  
LOGGER,  
TEST  
STAND**

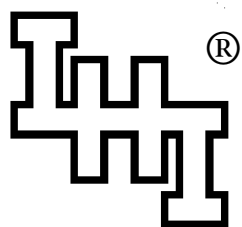


**POWER  
CONSOLE**



**PULL  
OUT  
TESTER**

**IHI's ONSITE UL / CSA UL 486 TEST LAB,  
ELECTRICAL AND MECHANICAL**



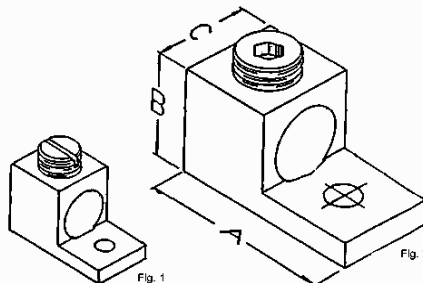
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## S Series Lugs

Tin Plated  
Aluminum for  
Single Copper or  
Aluminum Wires



Wire Range	Catalog Number	Fig. No.	A	B	C	Bolt Size
AWG 6-14	S 6	1	1-1/16	1/2	3/8	1/4
AWG 6-14	S6W	1	1-1/16	1/2	1/2	1/4
AWG 4-14	S4	1	1-1/16	1/2	1/2	1/4
AWG 2-14	S 2	1	1-5/32	9/16	1/2	1/4
AWG 2-14	S 2-171	1	1-5/32	9/16	1/2	#8 .Hole .171" Ø
AWG 1/0-14	S 1/0 +	1	1-15/32	13/16	5/8	1/4
AWG 1/0-14	S1/0-TP-HEX + No Rotate Rib	2 No-Rotate Rib	1 15/32	49/64	41/64	5/16
AWG 2/0-14	S 2/0 +	1	1-15/32	13/16	5/8	1/4
250 MCM-6	S 250	2	2	1-1/16	29/32	5/16
300 MCM-6	S 300	2	2	1-1/16	29/32	5/16
350 MCM-6	S 350	2	2	1-1/8	1	5/16
350 MCM-6	S 350-265	2	2	1-1/8	1	1/4 Hole .265" Ø
500 MCM-4	S 500	2	2-3/4	1-1/2	1-3/8	3/8
600 MCM-4	S 600	2	2-3/4	1-1/2	1-3/8	1/2 or 3/8"
750 MCM-4/0 *	S 750	2	3	1-1/2	1-7/16	5/16
800 MCM-350	S 800	2	2-15/16	1-15/16	1-5/8	5/8

**STOCKED SIZES** All are UL Listed and CSA Certified except (\*) S750, UL listed only. + Option available: 3/16" or 5mm Hex Drive screw

### Standard and Custom Connectors

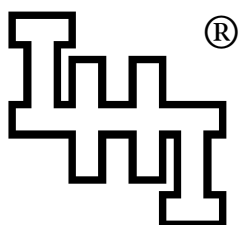
Materials: • Aluminum Alloys • Copper Alloys • Brass Alloys

Mechanical Products: • Box Connectors • Splicers • Lugs Wire Sizes: 14 AWG to 800 MCM/kcmil

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# Connectors

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## 2S Series Lugs

Tin Plated  
Aluminum Lugs for  
two Copper or  
Aluminum wires

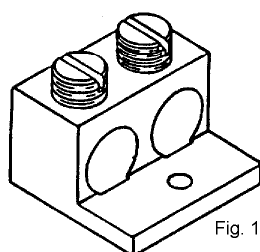


Fig. 1

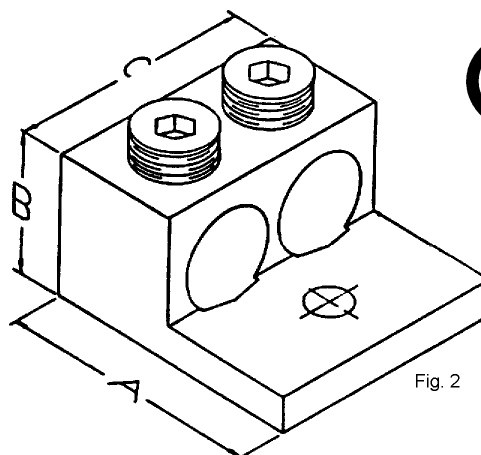


Fig. 2



Wire Range	Catalog Number	Fig. No.	A	B	C	Bolt Size
AWG 1/0 -14	2S1/0 +	1	1-15/32	13/16	1-1/8	1/4
AWG 2/0 -14	2S2/0 +	1	1-15/32	13/16	1-9/16	1/4
250 MCM -6	2S250	2	2-9/16	1-3/16	1-5/8	3/8
350 MCM -6	2S350	2	2-7/8	1-1/4	1-15/16	1/2
350 MCM -6	2S350-T #	2	2-7/8	1-1/4	1-15/16 1-3/4 #	1/2
500 MCM -6 *	2S500	2	3.5	1.75	2.22	1/2
600 MCM -4	2S600	2	3-1/8	1-9/16	2-3/8	1/2
600 MCM -4 No turn Rib	2S600TP NoTurn Rib	2 & 3	3-1/8	1-9/16	2-3/8	1/2
750 MCM -1/0	2S750	2	3-1/2	1-11/16	2-5/8	1/2

### STOCKED SIZES

UL Listed only, all others are UL Listed and CSA Certified. "TP" has Turn Prevent Rib on bottom  
# Tang Trimmed to 1.75" narrower width . + Option available: 3/16" or 5mm Hex drive screw.

## 3S Series Listed Lugs UL Listed and CSA Certified

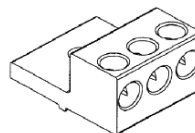
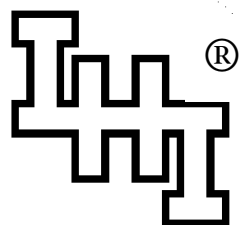


Fig. 3

250 MCM -6 No turn Rib	3S250TP NoTurn Rib	3	3-1/8	1-9/16	2-1/2	1/2	3
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### STOCKED SIZES

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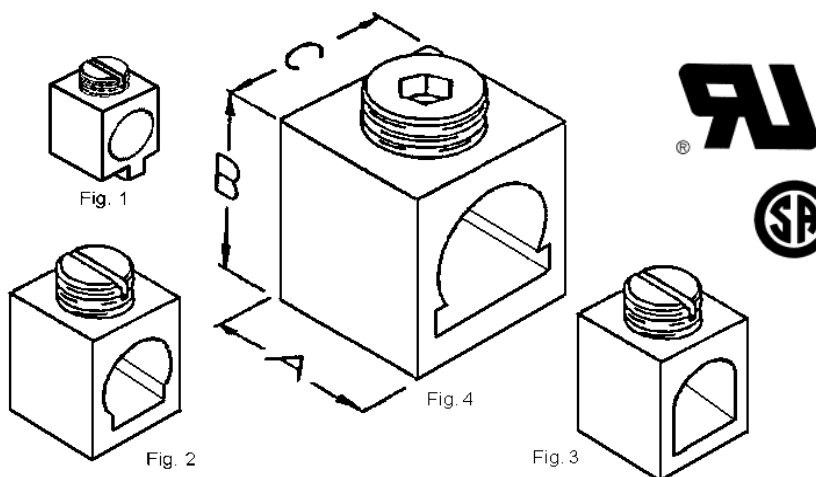


# Connectors

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## B Series Box (collar clamp) Connectors

Tin Plated Aluminum  
Box Connectors for  
Copper and Aluminum  
Wires.  
Buss (or PCB)  
mounted.



Wire Range	Catalog Number	Fig. No.	A	B	C	Buss (tang) Width	PCB solderable?
AWG 12-16 #	B12	5	.310	.45	.26	.13	YES, option
AWG 6-18 *	B6A	1	.338	.49	.34	.14 PCB slot	YES, Standard
AWG 6-14	B6B	2	.343	.53	.38	.22	
AWG 6-16 #	B6C	2	.406	.56	.42	.25	
AWG 4-14	B4B @	3	.48	.55	.46	.25-.30	Option
AWG 2-14	B2A	2 & 6	.406	.56	.42	.25	YES, option
AWG 2-14 # or 2X #10 AWG	B2B	3	.490	.58	.465	.324	
AWG 2-14	B2C	2 & 6	.406	.66	.465	.25	YES, option
AWG 1/0-8**	B1/0	3	.625	.72	.565	.37	
300 MCM-4 #	B300	4	.937	1.203	.795	.639	

**STOCKED SIZES** (# UL Recognized only) (\*\* c CSA us marked for USA & Canada) (\* No UL/CSA.)

@ B4B is made of Copper with a steel or brass screw. Recognized parts are intended for integration into assemblies which themselves require testing and agency approval.



Fig 5



Fig 6

PRINTED CIRCUIT BOARD. HIGH AMP WIRE CONNECTORS

IHI Connectors®, International Hydraulics Inc.  
7638 St. Clair Avenue, Mentor, OH 44060-5236

# IHI COLLAR (BOX) CONNECTORS FOR BUSS MOUNT OR PCB MOUNT CONNECT WIRE TO A BUSS OR A PRINTED CIRCUIT BOARD

Sales Cat No. / Material <b>STOCKED SIZES</b>	Wire Range	UL Cat No.	CSA Cat No.	Buss Size	Buss Supplied by/ Mat'l	Max Amps NEC 75C Cu	Temp Rate	Wire Hole Dia/ box	Screw Mat'l /size	Max Screw Torque In-lbs
B300 Alum	300-4	B300	- -	.63 x .25	User alum	285A	75 C	.64/.67	Alum 5/8	200
B1/0 Alum	1/0-8	B1/0 @	B1/0	.36 x .064	User Copper	150A	90C	.40 /.40+	Alum 7/16	100
B2A Alum	2-14	B2	B2	.24 x .04	User cu/alloy	115A	75 C	.30	Steel 5/16	50
B2A Alum	2-14	B2	- -	.25 x .032	User cu/alloy	50A	75 C	.30	Steel 5/16	50
B2A-PCB Alum	2-14	B2	B2	.24 x .05	IHI copper	115A*	75 C	.30	Steel 5/16	50
B2A1 Alum	2-16	B2A1	B2A1 #	.25 x .047	User cu/alloy	50A	90 C	.30	Alum 5/16	50
B2A2 Alum	2-16	B2A2	B2A2 #	.25 x .032	User cu/alloy	115A	90 C	.30	Alum 5/16	50
B2A2-PCB Alum	2-16	B2A2	B2A2 #	.24 x .04	IHI copper	115A*	90 C	.30	Alum 5/16	50
B2B Alum	2-14 or 2X #10 wires	B2B	- -	.312 x .045	User cu/alloy	65A	90 C	.324/ .37	Alum 3/8	50
B2B-PCB Alum	2-14	B2B	- -	.312 x .045	User cu/alloy	65A*	90 C	.324/ .37	Alum 3/8	50
B2C Alum	2-14	B2C	B2C	.24 x .04	User cu/alloy	115A	75 C	.324/ .37	Steel/SS 5/16	50
B2C-PCB Alum	2-14	B2C	B2C	.24 x .05	IHI Copper	115A*	75 C	.324/ .36	Steel/SS 5/16	50
B4B Copper	4-14	B4B @	B4B	.25 x .063	User cu/alloy	85A	90 C	.32/ .35	Stl/Bras 3/8	45
B6-PCB Alum	6-18	- -	- -	.34 x .14	IHI integral	35A*	(75 C)	.21	Steel/SS #12	25
B6B Alum	6-14	B6B	B6B	.20 x .032	User cu/alloy	65A	75 C	.22	Steel 1/4	35
B12 Alum	12-16 Cu	B12	- -	.125 x .063	User/IHI cu/alloy	20A	75 C	.15	Steel #10 fill	20

1. Parts with -PCB suffix are printed circuit board wave solderable. SS = Stainless Steel screw available.

2. IHI can provide quote on providing buss where it is non-stock. UL Recognition and CSA Certification may be added on request where it is not currently available. @ UL 486 tested by CSA under cCSAus mark.

\*Printed circuit application involving soldered joints may require a lower working temperature and therefore a lower maximum current based on the application and testing by the user. Anchoring strength is investigated by user.

# Canadian 22.2 Certification is by UL via the "cUR" mark. -|- No approval available by that agency at date of printing.

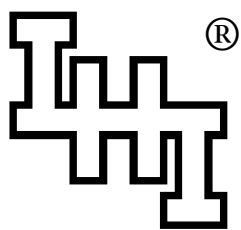
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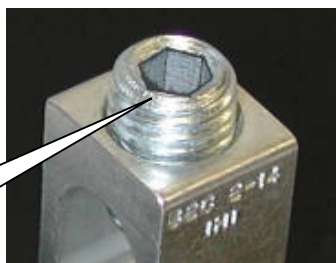
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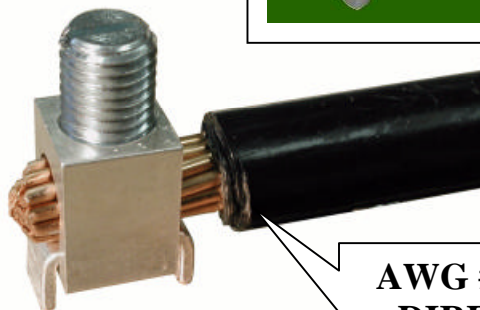
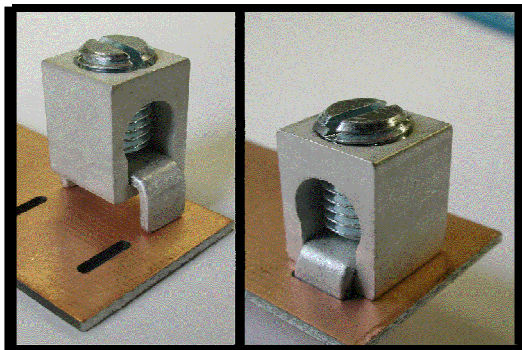
2- 14 AWG B2A-PCB & B2C-PCB SOLDERABLE Connectors  
Tin Plated Aluminum Box Connector for Copper and  
Aluminum Wires  
PCB WAVE SOLDERABLE USING COPPER BUSS



HEX SOCKET  
SCREW OPTION  
SLOT STANDARD



**B2C-PCB VERSION-  
LARGER WIRE HOLE!**



**AWG #2 WIRE  
DIRECT TO  
PCB !**

## Standard and Custom Connectors

Materials: • Aluminum Alloys • Copper Alloys • Brass Alloys

Mechanical Products: • Box Connectors • Splicers • Lugs

Wire Sizes: 14 AWG to 1000 MCM

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# IHI Connectors



**12- 16 AWG  
B12 or  
B12-PCB  
Connector**  
Tin plated  
Aluminum Box  
Connector for  
Copper Wires.  
Steel Screw



## STOCKED SIZES

Wire Range Copper only STOCKED SIZES	Sales Catalog no.	Depth	Height	Width	Buss Width
AWG 12 -16	B12 (-PCB)	.31	.45	.26	.125 - .140 in.

## Standard and Custom Connectors

Materials: • Aluminum Alloys • Copper Alloys • Brass Alloys

Mechanical Products: • Box Connectors • Splicers • Lugs

Wire Sizes: 14 AWG to 1000 MCM

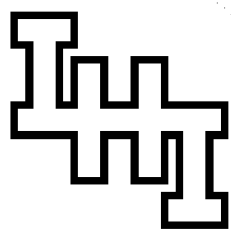
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# Connectors

**4- 14 AWG B4B**

**Connector**

Unplated Copper Box  
Connector for Copper Wires.  
Brass or Steel Screw



Wire Range Copper only	Sales Catalog no.	Depth	Height	Width	Buss Width (User supplied)
AWG 4 -14	B4B	.48	.55	.46	.25 -.30 in.

## Standard and Custom Connectors

Materials: • Aluminum Alloys • Copper Alloys • Brass Alloys

Mechanical Products: • Box Connectors • Splicers • Lugs

Wire Sizes: 14 AWG to 1000 MCM

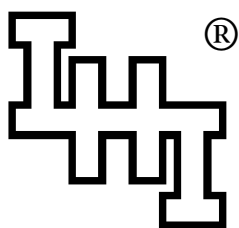
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# Connectors

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## **B2A-PCB & B2C-PCB Printed Circuit Board Mounted Connectors**

The B2A-PCB & B2C-PCB are sturdy, mechanical, screw type compression wire connectors. The copper "buss staple" at the bottom is designed to be inserted into two slots in the printed circuit board. The connectors can be used on .06" or .09" or .12" thick boards (leg is .13" high). Wave solderable, these connectors are aimed at 60-100 amp applications. Actual currents depend on mounted heat flow characteristics. Each application should be tested as constructed. Though rated the same, the B2C-PCB is larger in size and wire hole capacity.

1. Material is 6061-T6 aluminum, which is triple plated for corrosion resistance.
2. Aluminum has excellent heat dissipation characteristics and conductivity.
3. Buss staple and box connector have low thermal "inertia" which is compatible with wave soldering.
4. Plating type: Box: tin on copper on zinc. Buss staple: dull tin on copper.
5. Solderability testing can be offered to any special requirements.
6. Parts is supplied with a steel (zinc plated) screw. Option is an aluminum screw (tin plated).
7. Connector is UL recognized for 115 Amps AL7CU (75C°) rating with .047" buss supplied subject to UL approval of final PCB assembly. AL9CU (90C°) rating available with an aluminum screw.
8. B2A & B2C-PCB are AWG 2 to 14 capacity. Connectors with other capacities can be quoted.
9. Wire retaining screw torque for the 5/16 screw is 50 inch-pounds (UL standard for this screw). Mounted to a typical board, the soldered joint can withstand multiple 60 inch-pounds torque applications.
10. Typical torque applied by an AWG 2 coarse stranded wire when forcibly bent while attached to a B2A/B2C-PCB is under 35 inch-pounds. (7strands x 0.1 dia.).
11. Other connectors can be custom made to meet customer specifications.

Customers should fully investigate the soldered interface with their PC board for adequate strength including (but not limited to) analysis of effects at anticipated operating temperatures, weight of hanging wires on creep strength, number of torque cycles on wire retention screw and thermal cycling effects on soldered interface. While standard property data and test data can be provided, no responsibility whatsoever will be taken for the mounted connector. IHI will however supply parts in accordance with agreed dimensions and specifications. Depending on long term storage conditions, solderability may be reduced over time.

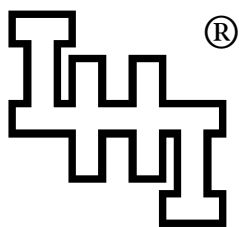
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**Fax: 440-951-1071**

**email: [cridley@ihinet.com](mailto:cridley@ihinet.com)**

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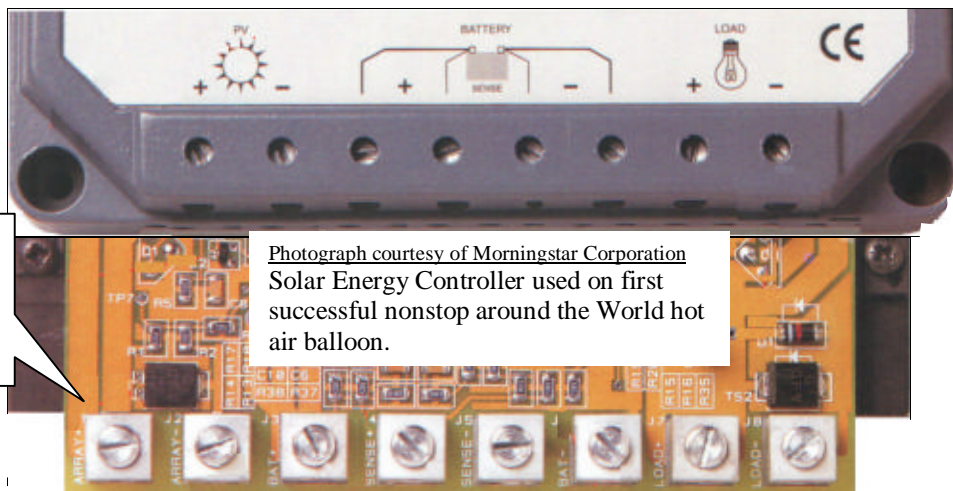
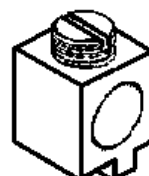
# Connectors

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## B6A-PCB Wave Solderable PCB Mounted

### # 6 AWG Wire Connector

with Stainless Steel Screw



**AWG #6  
WIRE  
DIRECTLY  
TO PCB !**

Photograph courtesy of Morningstar Corporation  
Solar Energy Controller used on first  
successful nonstop around the World hot  
air balloon.

## Standard and Custom Connectors

Materials: • Aluminum Alloys • Copper Alloys • Brass Alloys

Mechanical Products: • Box Connectors • Splicers • Lugs

Wire Sizes: 14 AWG to 1000 MCM

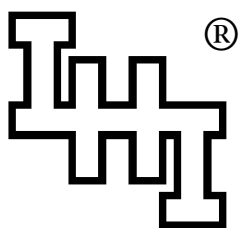
### **ANY QUESTIONS?**

Call Charles Ridley (ext. 103)

to discuss your needs. 440-951-7186 Fax 440-951-1071

e-mail: Charles Ridley: [cRidley@ihinet.com](mailto:cRidley@ihinet.com)

**IHI Connectors ®, International Hydraulics Inc.**  
**7638 St. Clair Avenue, Mentor, OH 44060-5236**



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## **B6A-PCB Printed Circuit Board Mounted Connector**

The "foot" is designed to be inserted into a slot in the printed circuit board. The connector can be used on .06" or .09" thick boards (foot is .10" high). Wave solderable.

1. Material is 6061 aluminum, which is triple plated for guaranteed solderability.
2. Aluminum has excellent heat dissipation characteristics.
3. Aluminum has low thermal mass, which is compatible with wave soldering.
4. Plating comprises: Tin bath dip on nickel on zinc.
5. Solderability testing can be set up to any special requirements can be offered.
6. Parts can be supplied with or without screws.
7. UL / CSA testing, if required, can be offered.
8. B6A-PCB is AWG 6. Connectors with AWG 2 capacity (B2A-PCB) and larger can be quoted.
9. Typical wire retaining screw torque for a 12-32 screw is 20 inch-pounds.
10. Typical torque applied by an AWG 6 stranded wire when forcibly bent while attached to a B6A-PCB is under 10 inch-pounds.
11. Other connectors can be custom made to meet customer specifications.
12. Operating limits for a typical customer application have been tested at: -90 C to +95 C. 6 axis vibration test at 20 C 45 grams.

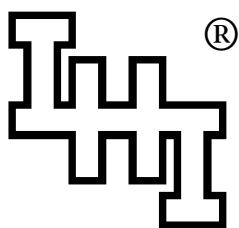
Customers should fully investigate the soldered interface with their PC board for adequate strength including (but not limited to) analysis of effects at anticipated operating temperatures, weight of hanging wires on creep strength, number of torque cycles on wire retention screw and thermal cycling effects on soldered interface. While standard property data and test data can be provided, no responsibility whatsoever will be taken for the mounted connector. IHI will however supply parts in accordance with agreed dimensions and specifications. Depending on long-term storage conditions, solderability may be reduced over time.

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**Fax: 440-951-1071**

**email: [cridley@ihinet.com](mailto:cridley@ihinet.com)**

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## P Series Splicer / Reducer

Tin Plated Aluminum  
Splicers for Copper  
and Aluminum Wires

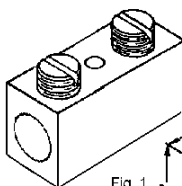


Fig. 1

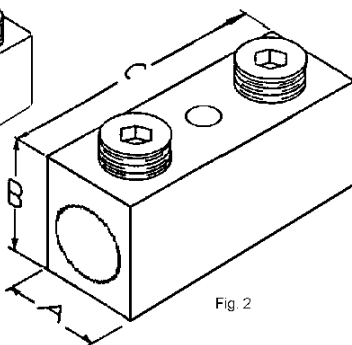


Fig. 2

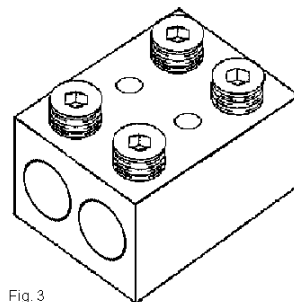


Fig. 3

Wire Range	Catalog Number	Fig. No.	A	B	C	Mtg. Hole
<b>STOCKED SIZES</b>						
AWG 4 -14	P4	1	.375	.484	1.01	None
AWG 2 -14	P2	1	.450	.562	1.219	.218
AWG 2/0 -8	P2/0	2	.562	.703	1.59	.200
500 MCM -6	P500	2	1.14	1.25	2.75	.174 / .25
500 MCM -6	2P500	3	2.218	1.5	2.5	.167

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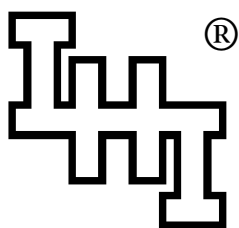
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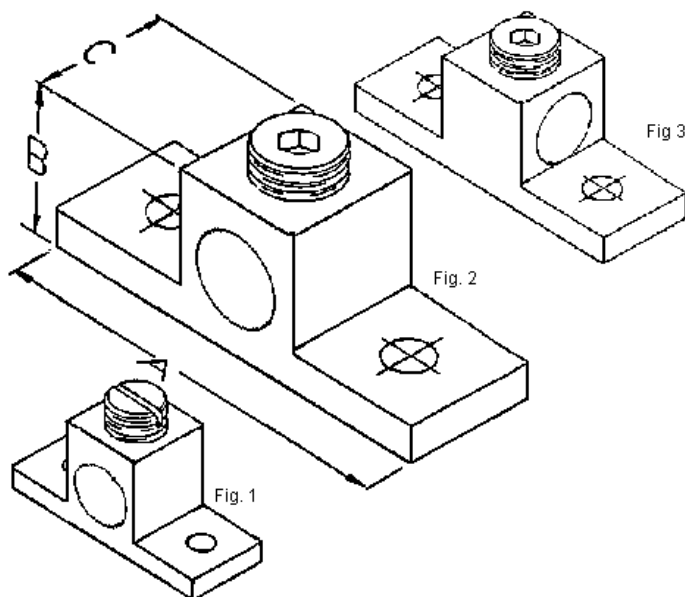
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## T Series Lugs

Tin Plated  
Aluminum for  
Single Copper or  
Aluminum Wires



Wire Range	Catalog Number	Fig. No.	A	B	C	Bolt Size
<b>STOCKED SIZES</b>						
AWG 2/0 -8	T2/0	2	1-11/16	0.9	5/8	#10
AWG 2/0 -14	T2/0A	3	1-11/16	0.9	5/8	#10
Other Sizes	Consult Factory	1, 2, 3				

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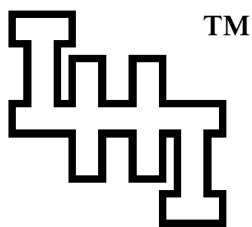
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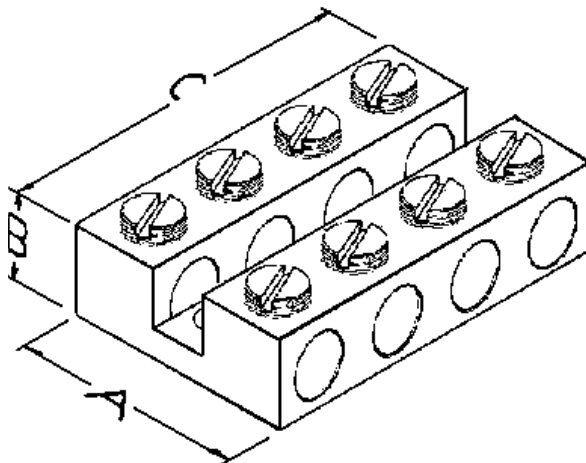
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## N Series

### Dual Neutral Bars

Tin Plated  
Aluminum  
for Copper and  
Aluminum  
Conductors



- Built in wire stops
- More compact than single bars
- No holes lost for mounting screws
- No additional mounting block required for dual bars

Wire Range	Catalog Number	No. of Poles	A	B	C	Mtg. Holes Diameter
AWG 4 -14	N4 – No. of Poles	1 to 20	.94	.44	(No. of Poles x .30) +.05	.21
AWG 2 -14	N2 – No. of Poles	1 to 20	1.07	.50	(No. of Poles x .36) +.07	.21

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