



# GROUNDING

## HIGH-WING™ SYSTEM

Continuous Run Capability

GREAVES EXCLUSIVE

### For Direct Burial Grounding and Bonding

Applications include galvanized pipe, rod, tube, fencing, rebar (#6, 3/4" and up)  
 Continuous run, lay-in design  
 Suitable for use in harsh environments such as agricultural buildings,  
 swimming pool/spa, food processing, marine, grounding grid and others  
 Orient head in any direction - lock in position with serrated teeth  
 Replaces exothermic welding  
 Corrosion-resistant cast bronze alloy body, silicon bronze hardware  
 Approved for direct burial in earth and concrete

### Direct Burial

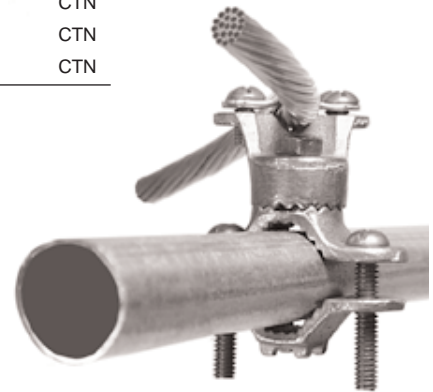
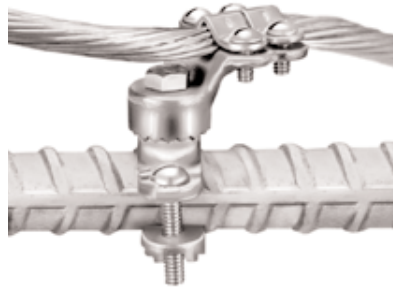
Copper wire only  
 Wire up to #4/0 AWG  
 Pipe sizes 1/2" to 6"



### G-DB SERIES

NAED NUMBER	CATALOG NUMBER	WATER PIPE SIZE (IN)	REBAR SIZE		GROUND WIRE	CTN QTY	EST. SHIPPING	
			#	INCH			WEIGHT (lbs)	UNIT
30750	<b>G 140-DB</b>	1/2 - 1	6 - 9	3/4 - 1 1/8	4/0STR-#10SOL	25	12.2	CTN
30760	<b>G 240-DB</b>	1 1/4 - 2	11	1 3/8		10	6.73	CTN
30770	<b>G 440-DB</b>	2 1/2 - 4	-	-		2	5.18	CTN
30780	<b>G 640-DB</b>	4 1/2 - 6	-	-		2	3.45	CTN

Not for use on epoxy coated rebar



### REBAR GROUND CLAMPS

Jones Bond™ Lay-in Rebar Clamp for Continuous Loop Grounding / Bonding  
 Pool / Spa bonding and grounding  
 "Ufer" Grounding (concrete encased electrodes)  
 Replaces Exothermic Welding  
 Installs quickly, grips rebar firmly between ridges with special teeth  
 Bronze body, stainless steel screw for direct burial  
 CSA Certified for direct burial in earth and concrete on rebar

### Direct Burial

Copper wire only



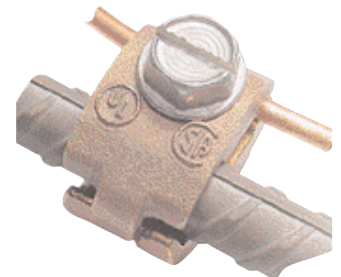
### J-DB SERIES

NAED NUMBER	CATALOG NUMBER	WIRE RANGE	REBAR SIZE		WEIGHT LBS/CTN	CTN QTY	EST. SHIPPING	
			#	INCH			WEIGHT (lbs)	UNIT
27101	<b>J 29-DB</b>	#6 SOL - 8 SOL	3	3/8	7.5	50	7.5	CTN
27110	<b>J 30-DB</b>	#4 STR - 8 SOL	4	1/2	8.5	50	8.5	CTN
27120	* <b>J 31-DB</b>	2/0 STR - 6 SOL	5	5/8	5.0	25	5.0	CTN
27130	** <b>J 32-DB</b>	4/0 STR - 6 SOL	4,5,6	1/2,5/8,3/4	4.3	12	4.3	CTN

Not for use on epoxy coated rebar.

\*UL listed for #4 STR - #2 STR

\*\* UL pending



Patent Pending



# GROUNDING

**2005 NEC Article 250.52(A)(3)** requires all “present” grounding electrodes to be bonded together to form a grounding electrode system. “Present” concrete-encased electrodes (re-enforcing bar, or rebar) and/or grounded I-beam must be included in the grounding electrode system. The result is a more effective and reliable grounding system.

## REBAR “UFER” GROUNDING CLAMPS

Lay-in feature allows continuous loop wiring  
 Bronze bodies with bronze or stainless steel hardware  
 For use in other harsh environments such as swimming pool/spa, agricultural buildings, food processing, marine, communications grid and others  
 Compared to compression and exothermic methods for rebar “Ufer” grounding and bonding, Greaves mechanical clamps provide fast installation and range-taking capability.

Use to connect wire to rebar

### J-DB SERIES

### Jones™ Rebar Clamp

NAED NUMBER	CATALOG NUMBER	REBAR SIZE		WIRE RANGE	CTN QTY	EST. SHIPPING	
		#	INCH			WEIGHT (lbs)	UNIT
27101	J 29-DB	3	3/8	#6 SOL - 8 SOL	50	7.5	CTN
27110	J 30-DB	4	1/2	#4 STR - 8 SOL	50	8.5	CTN
27120	J 31-DB	5	5/8	2/0 STR - *6 SOL	25	5.0	CTN
27130	** J 32-DB	4,5,6	1/2,5/8,3/4	4/0 STR - 6 SOL	12	4.3	CTN

Not for use on epoxy-coated rebar                      \*\*UL pending  
 \*UL listed for #4 STR - #2 STR

Use to connect wire to galvanized water pipe, rod, tube, fence post, or rebar  
 Orient head in any direction - lock in position with serrated teeth

### G-DB SERIES

### HIGH-WING™ System

NAED NUMBER	CATALOG NUMBER	REBAR SIZE		GROUND WIRE	CTN QTY	EST. SHIPPING	
		#	INCH			WEIGHT (lbs)	UNIT
30750	G 140-DB	6 - 9	3/4 - 1 1/8	4/0STR - #10SOL	25	12.15	CTN
30760	G 240-DB	11	1 3/8		10	6.73	CTN

Use to connect wire to rebar or water pipe

### GR-DB SERIES

### Lay-in Rebar Clamp

NAED NUMBER	CATALOG NUMBER	REBAR SIZE		GROUND WIRE	CTN QTY	EST. SHIPPING	
		#	INCH			WEIGHT (lbs)	UNIT
70621	G 1R-DB	3 - 8	3/8 - 1	#2 - 10	50	11.6	CTN

Use to connect wire to galvanized water pipe, conduit, rod, tube, fence post, or rebar  
 Connects wire either parallel or 90° to pipe

### C100 SERIES

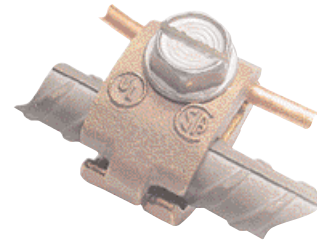
### U-Bolt Clamp

NAED NUMBER	CATALOG NUMBER	REBAR SIZE		GROUND WIRE	CTN QTY	EST. SHIPPING	
		#	INCH			WEIGHT (lbs)	UNIT
25020	C 101	3 - 5	3/8 - 5/8	2/0 - #4	EA	0.48	EA
25080	C 104	4 - 6	1/2 - 3/4			0.54	EA
25160	C 108	7 - 8	7/8 - 1			0.49	EA
25260	C 114	7 - 11	7/8 - 1 3/8			0.66	EA
25360	C 120	8 - 12	1 - 1 1/2			0.80	EA

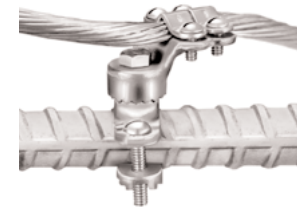
See C100 Series for complete listing of sizes.



**Direct Burial**  
 Copper wire only

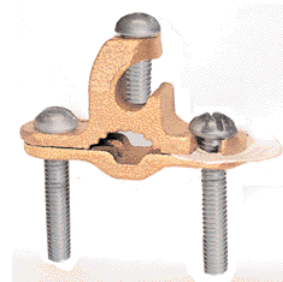


R



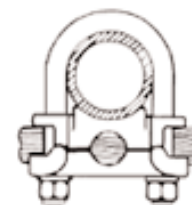
E

B



A

R



Parallel or 90° connection to rod or pipe

**2005 NEC 250.52(A)(3) requires bonding all “present” grounding electrodes, including concrete-encased electrodes (Ufer).**



GREAVES EXCLUSIVE

# POOL and SPA "Jones Bond" system

## CONTINUOUS LOOP BONDING & GROUNDING

Swimming pools / spas, foundation footings, agricultural buildings and other difficult environments

### JONES REBAR CLAMP

Connect grounding electrode conductor to rebar (concrete encased electrode)  
Rugged and compact with no awkward projections - easy coverage in concrete  
Lay-in feature allows continuous-run or termination  
Cast bronze body with stainless steel hardware  
The J32-DB handles a range of rebar sizes and wire sizes  
CSA (C US) certified and UL listed for direct burial in earth or concrete

### Rebar Clamp

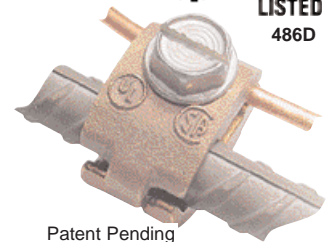
NAED NUMBER	CATALOG NUMBER	WIRE RANGE	REBAR SIZE		CTN QTY	EST. SHIPPING	
			#	INCH		WEIGHT (lbs)	UNIT
27101	J 29-DB	6 SOL - #8	3	3/8	50	7.74	CTN
27110	J 30-DB	4 STR - #8 SOL	4	1/2	50	8.49	CTN
27120	J 31-DB	2/0 STR - *#6 SOL	5	5/8	25	5.66	CTN
27130	** J 32-DB	4/0 STR - #6 SOL	4,5,6	1/2,5/8,3/4	12	4.18	CTN

J-series clamps are designed for bare rebar only  
Do not use on ground rod, pipe, or epoxy-coated rebar  
Installation torque 150 in-lbs

\*UL listed for #4 STR - #2 STR  
\*\*UL pending



Direct Burial  
Copper wire only



Patent Pending

### BEAVER TOOTH LUG

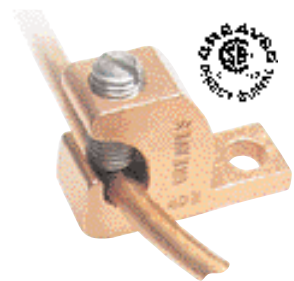
Use on electrical equipment, pool/spa equipment, conduit bushings, jumper to multiple conduits  
Copper body, stainless steel screw, for use with copper wire only

### Lay-in-Lug

NAED NUMBER	CATALOG NUMBER	WIRE RANGE	BOLT SIZE	CTN QTY	EST. SHIPPING	
					WEIGHT (lbs)	UNIT
27201	BTL 4-DB	#4 -14 AWG	#10	50	3.06	CTN
27202	BTL 4-DBP	#4 -14 AWG	#10	50	3.06	CTN
27205	BTL 414-DB	#4 -14 AWG	1/4	50	3.89	CTN
27206	BTL 414-DBP	#4 -14 AWG	1/4	50	3.89	CTN

DBP is tin-plated for use on aluminum pool structure. Use of oxide-inhibitor is recommended.

Direct Burial  
Copper wire only



### BUGLUGS™

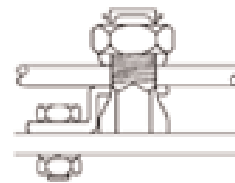
Heavy duty silicon bronze and copper, tin-plated  
For use with copper wire only

### Lay-in-Lug

NAED NUMBER	CATALOG NUMBER	WIRE MAX	MOUNTING BOLT SIZE	CTN QTY	EST. SHIPPING	
					WEIGHT (lbs)	UNIT
70850	BL 6	#6	#10	50	2.92	CTN
70855	BL 4	#4	1/4	50	4.40	CTN
70860	BL 2	#2	1/4	50	6.91	CTN
70865	BL 1/0	1/0	5/16	25	5.27	CTN

Tin-plated for use on aluminum pool structure. Use of oxide-inhibitor is recommended.

Direct Burial  
Copper wire only



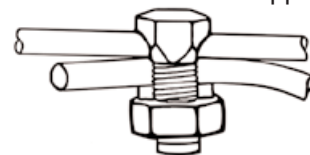
Patent Pending

### MESH-BUG™

Use to connect copper conductor to wire mesh  
Copper-alloy bronze construction  
Sizes available for rolled (#10) and heavy (#6) wire mesh  
UL listed for direct burial in earth and concrete

NAED NUMBER	CATALOG NUMBER	MESH/ WIRE SIZE	COPPER COND. RANGE (AWG)	EST. SHIPPING	
				WEIGHT (lbs)	UNIT
10131	A2-DB	#10	#8 -12 AWG	0.03	CTN
10132	A3-DB	#10	#6 SOL - 8 AWG	0.05	CTN
10241	A5-DB	#6, #10	#4 AWG - 8 SOL	0.06	CTN
10251	A8-DB	#2	#2 - 6 AWG	0.11	CTN
10261	A10-DB	#1/0	#1/0 - 4 AWG	0.16	CTN

Direct Burial  
Copper wire only





## POOL and SPA

# "Jones Bond"™ system

## GROUND ROD CLAMPS

For connecting ground wire to ground rod  
Cast bronze body with silicon bronze bolt, for use with copper wire only  
UL listed for direct burial in earth and concrete

NAED NUMBER	CATALOG NUMBER	GROUND ROD SIZE (IN)	GROUND WIRE MAX	CTN QTY	EST. SHIPPING	
					WEIGHT (lbs)	UNIT
27000	<b>G 29</b>	3/8	#4 STR	50	3.3	CTN
27010	<b>G 30</b>	1/2	#4 SOL	50	4.2	CTN
27020	<b>G 31</b>	5/8	1/0 SOL	50	5.6	CTN
27030	<b>G 32</b>	3/4	#2 SOL	50	6.7	CTN
27040	<b>G 100</b>	1	1/0 STR	25	7.6	CTN

### Direct Burial

Copper wire only

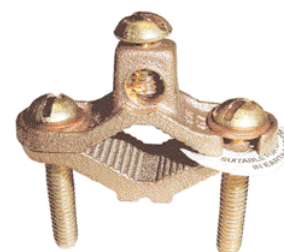


## PIPE CLAMPS

For connecting ground wire to water pipe  
Cast bronze body, silicon bronze screws, for use with copper wire only  
UL listed for direct burial in earth and concrete

NAED NUMBER	CATALOG NUMBER	WATER PIPE SIZE (IPS)	GROUND WIRE MAX	CTN QTY	EST. SHIPPING	
					WEIGHT (lbs)	UNIT
70620	<b>G 1S-DB</b>	1/2 - 1	#2 STR	50	9.5	CTN
70622	<b>G 2S-DB</b>	1 1/4 - 2	#2 STR	25	9.0	CTN

### Direct Burial



## U-BOLT CLAMPS

### Heavy Duty U-bolt Clamps

Use to connect wire to pipe, rod, or fence posts  
Cast bronze bodies with silicon bronze hardware, for use with copper wire only  
CSA NRTL/C Certified for direct burial in earth and concrete

NAED NUMBER	CATALOG NUMBER	ROD SIZE (IN)	WATER PIPE SIZE (IPS)	CABLE RANGE	EST. SHIPPING	
					WEIGHT (lbs)	UNIT
25020	<b>C 101</b>	1/2	1/4		0.5	EA
25080	<b>C 104</b>	5/8 - 3/4	3/8	2/0 - #4	0.6	EA
25160	<b>C 108</b>	7/8 - 1	1/2 - 3/4		0.6	EA
25260	<b>C 114</b>	-	1		0.7	EA
25360	<b>C 120</b>	-	1 1/4	2/0 - #4	0.9	EA
25560	<b>C 132</b>	-	2		1.0	EA
71245	<b>C 142</b>	-	3		1.5	EA

### Direct Burial



Parallel or 90° connection to rod or pipe

See C100 Series for complete listing of sizes.

PLATING: For tin plating of above items add suffix "P" to CATALOG NUMBER.

## STAINLESS STEEL HARDWARE KITS

Sets of stainless steel screws, washers, and nuts  
Use to mount BTL-DB and BL Series lugs to equipment  
Each kit packaged in clear plastic display box

NAED NUMBER	CATALOG NUMBER	SCREW		KIT CONTENTS				EST. SHIPPING	
		SIZE	L (IN)	SCREWS	WASHERS FLAT	NUTS LOCK	WEIGHT (lbs)	UNIT	
27221	<b>SS 10-A</b>	10-24	1/2	50	100	50	50	.4	KIT
27223	<b>SS 10-B</b>		3/4					.5	KIT
27225	<b>SS 10-C</b>		1					.6	KIT
27226	<b>SS 10-D</b>		1 1/4					.6	KIT
27231	<b>SS 0-A</b>	1/4-20	1/2	25	50	25	25	.6	KIT
27233	<b>SS 0-B</b>		3/4					.7	KIT
27235	<b>SS 0-C</b>		1					.8	KIT
27237	<b>SS 0-D</b>		1 1/2					.9	KIT

### Direct Burial



For larger sizes of stainless steel or silicon bronze see HARDWARE pages.

www.greaves-usa.com

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