

STATIC BONDING AND GROUNDING CLAMPS

Static electricity is a constant problem in many production facilities and hazardous locations. Static build-up can lead to explosions, fires, property damage and personnel injury. Grounding and bonding is the approved and best method to drain-off or neutralize static charges in drum storage areas, during truck, rail car, and barge transfers, and during aircraft fueling. Lind Equipment offers a wide variety of grounding clamps, cables and reels to meet all static grounding and bonding applications. Ground assemblies can be customized using the following clamps with several different cables and cable reels in various lengths.

REB ALUMINUM HAND CLAMP

- Industry standard for bonding and grounding containers, drums, totes, machinery, and personnel.
- Cast aluminum construction with two stainless steel points.
- 55 lb. spring pressure helps to ensure proper metal contact through paint and corrosion build-up.
- FM approved.



VUD-100 ALUMINUM HAND CLAMP

- Special application clamp designed for drums with large, rolled rims.
- Includes quick-release harness to help minimize strain on cable connection.



ADJUSTABLE PIPE CLAMPS

- Provide semi-permanent connections to water pipes.
- Rugged cast bronze construction.
- Larger sizes and hinged clam-style models are also available.



PART NO.	PIPE RANGE (I.D.)	MIN. PIPE O.D.	MAX. PIPE O.D.
JR-150-6	1/2" to 1"	5/8"	1 3/8"
JR-150-7	1 1/4" to 2"	1 3/8"	2 3/8"
JR-150-30	2" to 4"	2 1/8"	4 1/2"
JR-150-50	4 1/2" to 6"	3"	6 5/16"

G-12 BRASS GROUND BALL

- 5/8" diameter.
- Standard 3/8"-16 threaded stem.



LUG TERMINALS

- LE-18C 5/16" copper lug terminal for 3/32" to 1/4" cable, crimp attachment
- LE-18SC 1/4" copper lug terminal for 3/32" to 5/16" cable, screw attachment
- LE-28C 3/8" copper lug terminal for 3/32" to 1/4" cable, crimp attachment
- LE-28S 5/16" copper lug terminal for 1/8" to 7/16" cable, screw attachment



LE-18C



LE-18SC

C-CLAMPS

- Offer easy, semi-permanent connections.
- Model EP-1 is ideal for bonding drums to drum racks.
- Model 2178 is suited for rail and marine applications.
- EP-1 Small C-clamp, plated steel, opens to 3/4"
- EP-2 1" beam clamp with thumbscrew and lug
- EP-3 Large C-clamp, cast bronze, opens to 1 1/4"
- EP-4 Large C-clamp, plated steel, opens to 1 1/2"
- EP-5 Large pipe/beam clamp, plated steel, opens to 2 3/4"
- 2178 Oversized cast bronze C-clamp, opens to 2 1/2"



EP-1/EP-4



EP-5

COPPER ALLIGATOR CLIPS

Economical option to hand clamps for light-duty applications. Solid copper construction.

- LE-25C Clip with screw, 75 amp rating, opens 3/4"
- LE-21C Clip with screw and lug, 100 amp rating, opens 1"
- LE-11C Clip with screw and lug, 200 amp rating, opens 1 1/4"



ALS10A ALUMINUM GROUND CLAMP

- Similar to REB except with plated steel jaws instead of points.
- Extensively used for aircraft refueling.
- Ideal for attaching to landing gear, posts, ground balls, and other unpainted surfaces.
- Complies with mil spec M83413/7-1.



110-G AVIATION GROUND CLAMP

- Special application clamp, intended for attachment to recessed ground balls found in hangars and on many tarmacs.
- Lies flat to minimize tripping hazard.
- Plated steel construction.



AVIATION BAYONET PLUGS

- Fit standard aircraft grounding receptacles.
- AV65 Stainless steel, hexagonal shape, mil spec M83413/4. Knurled version (mil spec M83413/4-1) is also available.
- AV75 Same as AV65 except brass.



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STATIC BONDING AND GROUNDING CLAMPS AND CABLES

GAT SERIES ALUMINUM HAND CLAMPS



- Large plier-type clamp for grounding railcars, tanker trucks, and barges.
- Heavy-duty design, cast aluminum construction.
- Equipped with a quick release harness, so that should the vehicle depart before the clamp has been released, tension on the attached harness will force the clamp to release automatically.
- Equipped with either stainless steel points for attachment to virtually all surfaces, or brass "cup" points for attachment to ground balls.
- Models with electrically isolated points are for use with 2-wire electronic ground indicating systems.

GAT-P Three stainless steel points (one on one side, two on other side)

GAT-PIP GAT-P with isolated stainless steel point on one side

GAT-PIP1 GAT-P with isolated brass "cup" point on one side, fits ground balls

GAT-PIP2 Two isolated brass "cup" points (one on each side), fits ground balls

G40 SERIES BRONZE HAND CLAMPS



G40-PCU

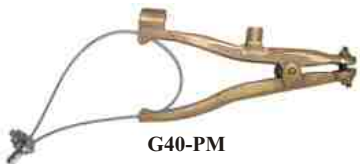
- Large plier-type clamp for grounding railcars, tanker trucks, and barges.
- Rugged, cast bronze construction.
- Equipped with a quick release harness, so that should the vehicle depart before the clamp has been released, tension on the attached harness will force the clamp to release automatically.
- Equipped with either stainless steel points for attachment to virtually all surfaces, or brass "cup" points for attachment to ground balls.
- Models with electrically isolated points are for use with 2-wire electronic ground indicating systems.

G40-PCU Three stainless steel points (one on one side, two on other side), connection for a ground ball, accepts cables 3/16"-3/8" O.D. (maximum #2 cable size)

G40-PM Three stainless steel points, (one on one side, two on other side), accepts cables up to 1/4" O.D. (maximum #6 cable size)

G40-PMIP G40-PM with isolated stainless steel point on one side

G40-PMIP1 G40-PM with isolated brass "cup" point on one side, fits ground balls



G40-PM

GROUNDING CABLE



LEC-116SS 1/16" stainless steel

LEC-116PC 1/16" plated steel, clear PVC coated, 3/32" O.D.

LEC-332SS 3/32" stainless steel

LEC-332PC 3/32" plated steel, clear PVC coated, 1/8" O.D.

LEC-332OP 3/32" plated steel, orange PVC coated, 5/32" O.D.

LEC-332YP 3/32" plated steel, yellow PVC coated, 5/32" O.D.

LEC-332YH 3/32" plated steel, yellow hytrel coated, 5/32" O.D.

LEC-18PS 1/8" plated steel

LEC-18SS 1/8" stainless steel

LEC-25B 1/4" bare bronze "Super-flex"

16/2-SJO-C25 16/2 SJO 25' coily cable for 2-wire electronic ground indicating systems

14/2-SO-C25 14/2 SO 25' coily cable for 2-wire electronic ground indicating systems

SELF-RETRACTING GROUNDING CABLE



LR10+10

LR-20

LR-5 5' of 1/8" coiled cable, plated steel, orange PVC coated to 3/16" O.D.

LR-10 10' of 1/8" coiled cable, plated steel, orange PVC coated to 3/16" O.D.

LR-15 15' of 1/8" coiled cable, plated steel, orange PVC coated to 3/16" O.D.

LR-10+10 20' of 1/8" coiled cable, plated steel, orange PVC coated to 3/16" O.D.

LR-30 30' of 1/8" coiled cable, plated steel, orange PVC coated to 3/16" O.D.

LR-20 20' of 3/16" coiled cable, 2' straight section, plated steel, orange PVC coated to 1/4" O.D.

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STATIC BONDING AND GROUNDING ASSEMBLIES

Transferring flammable liquids between vessels can generate static electricity within the liquids or containers. If such a static charge is allowed to buildup, a spark may occur and ignite a fire or explosion. Proper use of bonding and grounding cable assemblies helps to safely dissipate static charges before an accident can occur.

HEAVY-DUTY ASSEMBLIES: The strong spring action and two stainless steel points incorporated in the *REB* hand clamps of the LE60 Series provide a secure bite through paint and rust to assure an effective ground. Standard cable is 3-foot long $\frac{1}{8}$ " diameter plated steel.



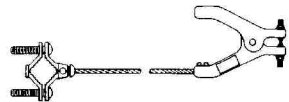
LE60HH Two *REB* hand clamps



LE60HCS *REB* hand clamp, EP-1 $\frac{3}{4}$ " C-clamp



LE60HL *REB* hand clamp, LE-18C $\frac{5}{16}$ " lug terminal



LE60HP *REB* hand clamp, JR150-6 bronze pipe clamp (fits $\frac{1}{2}$ " to 1" pipe)



LE60HCL *REB* hand clamp, EP-4 $1\frac{1}{2}$ " C-clamp

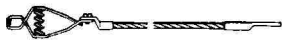
LIGHT-DUTY ASSEMBLIES: An economical alternative for effective grounding. Standard cable is 3-foot long $\frac{1}{8}$ " diameter plated steel, or $\frac{3}{32}$ " diameter plated steel coated with yellow PVC to $\frac{5}{32}$ " outside diameter, as specified.



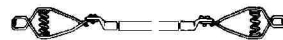
LE62 Two LE-25C alligator clips, uncoated cable



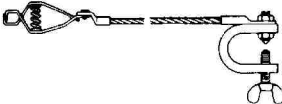
LE70 Two LE-18C $\frac{5}{16}$ " lug terminals, uncoated cable



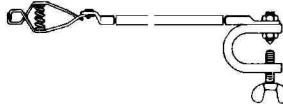
LE63 LE-25C alligator clip, LE-18C $\frac{5}{16}$ " lug terminal, uncoated cable



LE72 Two LE-25C alligator clips, PVC coated cable



LE64 LE-25C alligator clip, EP-1 $\frac{3}{4}$ " C-clamp, uncoated cable



LE79 LE-25C alligator clip, EP-1 $\frac{3}{4}$ " C-clamp, PVC coated cable

OPTIONAL CABLE LENGTHS FOR HEAVY-DUTY AND LIGHT-DUTY ASSEMBLIES

LENGTH:

6-foot cable

10-foot cable

ADD SUFFIX TO PART #:

-72

-120

Note: Other lengths, cables, and terminations are available on request.

RETRACT-A-CLAMP SELF-STORING ASSEMBLIES

Eliminate tangled bonding and grounding assemblies that lie on the floor and present a tripping hazard. Retract-A-Clamp coiled assemblies neatly and compactly retract out of the way when not in use. The coiled plated steel cable is bright orange PVC coated for high visibility. The assemblies include the *REB* clamp, which is ideal for drum, pail, and safety can transfers, or the *GAT-P* or *G40-PCU* clamp for vehicles, railcars, and larger vessels.

- RAC5** *REB* hand clamp, 5-foot $\frac{1}{8}$ " coiled cable, $\frac{5}{16}$ " lug terminal
- RAC10** *REB* hand clamp, 10-foot $\frac{1}{8}$ " coiled cable, $\frac{5}{16}$ " lug terminal
- RAC15** *REB* hand clamp, 15-foot $\frac{1}{8}$ " coiled cable, $\frac{5}{16}$ " lug terminal
- RAC10+10** *REB* hand clamp, 20-foot $\frac{1}{8}$ " coiled cable, $\frac{5}{16}$ " lug terminal
- RAC30** *REB* hand clamp, 30-foot $\frac{1}{8}$ " coiled cable, $\frac{5}{16}$ " lug terminal
- RAC20** *GAT-P* large aluminum hand clamp, 20-foot $\frac{3}{16}$ " coiled cable, $\frac{3}{8}$ " lug terminal
- RAC20B** *G40-PCU* large bronze hand clamp, 20-foot $\frac{3}{16}$ " coiled cable, $\frac{3}{8}$ " lug terminal



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