Proper selection of each part of a grounding set is important in filling the requirements of your application.

1. CLAMPS
Clamp Design (C Type, Duck Bill, Flat, or Bus)
Clamp Size. (Min. & Max. Capacity)
ASTM designation for Type I (Eye Screw), Type II (Stick Mounted), or Type III (T Screw)
Class A (Smooth Jaw) or Class B (Serrated)
Select Grade 1 through 7
(Reference ASTM F855 Tables 1 & 2)

2. FERRULE
Size - Must match required Ground Cable AWG.
Material - Copper or Aluminum
Plain or Threaded - Match Clamp Selection
Shrouded or Unshrouded

3. Cable
Specify AWG Size
Outer jacket color (Black, Yellow, Clear, etc.)
Cable length required to reach application distances.

4. Shrink Tubing or Strain Relief
Contact Reliable Equipment for more ground clamps, accessories, and related products.

Consult your Reliable representative for available grounding options.
GROUNDBCLAMPS AVAILABLE FROM RELIABLE EQUIPMENT

**R-GC-2.5A**
- **“C” TYPE (THREADED)**
- Aluminum Body
- Smooth Jaws
- Capacity: .16-.2.4” # 6-2” IPS
- Current: 400 RMS Amps / 60 Hz
- ASTM: Type I / Class A / Grade 5H
- Compare to: (Closest Match)
  - Salisbury # 1923

**R-GC-2A or 2B (SHOWN)**
- **“C” TYPE (THREADED)**
- Aluminum Body
  - (B) Serrated (A) Smooth Jaws
- Capacity: .16-.2” # 6-3000 KCM ACSR
- Current: 400 RMS Amps / 60 Hz
- ASTM: Type I / Class B / Grade 5H
  - (See also R-GC-2AC & 2BC models)
- Compare to: (Closest Match)
  - Salisbury # 20862
- Chance # T600-0658
- Hastings # 10375

**R-GC-1002**
- **“C” TYPE (THREADED)**
- Aluminum Body
- Serrated Jaws
- Capacity: .16-.1.5” # 6-1431 KCM ACSR
- Current: 400 RMS Amps / 60 Hz
- ASTM: Type I / Class B / Grade 5H
- Compare to: (Closest Match)
  - Salisbury # 1895
  - Chance # T600-2708
  - Hastings # 21575

**R-FG-1006**
- **FLAT (THREADED)**
- Aluminum Body
- Serrated Jaws
- Capacity: .06-.1.5” Flat or Square
- Current: 400 RMS Amps / 60 Hz
- ASTM: Type III / Class B / Grade 5
- Compare to: (Closest Match)
  - Salisbury # 4345

**R-BGC-1.25**
- **“C” TYPE (THREADED)**
- Bronze Body
- Smooth Jaws
- Capacity: .16-.1.25” # 6-1033 KCM ACSR
- Current: 400 RMS Amps / 60 Hz
- ASTM: Type I / Class A / Grade 5H
- Compare to: (Closest Match)
  - Salisbury # 1897
  - Chance # C600-2271

**R-BGC-.81**
- **“C” TYPE (DRILLED)**
- Bronze Body
- Smooth Jaws
- Capacity: .16-.81” # 6-477 KCM ACSR
- Current: 250 RMS Amps / 60 Hz
- ASTM: Type I / Class A / Grade 2
- Compare to: (Closest Match)
  - Chance # T600-0465

**R-BFC-1.5**
- **FLAT (THREADED)**
- Bronze Body
- Serrated Jaws
- Capacity: .112-.1.5”
- Current: 400 RMS Amps / 60 Hz
- ASTM: Type III / Class B / Grade 5
- Compare to: (Closest Match)
  - Chance # C600-2231
- Hastings #21608

Consult your Inside Sales Representative for Availability and Custom Assembly
GROUNDB CLAMPS AVAILABLE FROM RELIABLE EQUIPMENT

**R-DB-1003**
**DUCK BILL (THREADED)**
Aluminum Body, Serrated Jaw
Cap: .16-1.66" # 6-1590 MCM ACSR
Current: 400 RMS Amps / 60 Hz
ASTM: Type I / Class B / Grade 5
Compare to: (Closest Match)
Salisbury # 1853
Chance # C600-0197

**R-DB-1.1A**
**DUCK BILL (THREADED)**
Aluminum Body
Smooth Jaws
Cap: .16-1.1" # 6-795 KCM ACSR
Current: 400 RMS Amps / 60 Hz
ASTM: Type I / Class A / Grade 5
Compare to: (Closest Match)
Salisbury #21030
Chance # C600-1734
Hastings # 10476

**R-DB-1004**
**DUCK BILL (PRESSURE)**
Aluminum Body, Smooth Jaws
Cap: .16-1.1" # 6-795 KCM ACSR
Current: 400 RMS Amps / 60 Hz
ASTM: Type I / Class A / Grade 3
Compare to: (Closest Match)
Salisbury #24404
Chance # G3622-1
Hastings # 10478

**R-BS-GC**
**Ball Socket Clamp (THREADED)**
ASTM Type I • Class A • Grade 5
Bronze Body 1" Ball Diameter
Current: 400 Amps /60 Hz
Compare to: (Closest Match)
Salisbury # 21190
Chance # C600-2101

**REL-BUS-6.62**
**“C” TYPE (THREADED)**
Aluminum Body
Smooth, Flat Lower Jaw
For Substation Buses - Round, Square, Rectangle, or "H" Section
Capacity: 6.12 IPS 0.4"- 6.62"
Current: 400 RMS Amps / 60 Hz
ASTM: Type I / Class A / Grade 5
Compare to: (Closest Match)
Salisbury # 2991

**FERRULES**

<table>
<thead>
<tr>
<th>DIE</th>
<th>THREADED PART</th>
<th>PLAIN PART</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-#2TF</td>
<td>165</td>
<td>R-2#PF</td>
</tr>
<tr>
<td>R-1/0TF</td>
<td>165</td>
<td>R-1/0PF</td>
</tr>
<tr>
<td>R-2/0TF</td>
<td>165</td>
<td>R-2/0PF</td>
</tr>
<tr>
<td>R-4/0TF</td>
<td>167</td>
<td>R-4/0PF</td>
</tr>
</tbody>
</table>

**R-GR-PS**
**GROUND PARKING STUD**
Style: Bronze
Compare to: (Closest Match)
Salisbury # 21754
Chance # G3627
Hastings # 13210

Consult your Inside Sales Representative for Availability and Custom Assembly
**“C” Type Grounding Clamp**

ASTM: Grade 5 • ALUMINUM • TYPE I
Stainless Steel Eye Screw w/ Fine Threads Tapped for 5/8-11 UNC Ferrule Wt: 2.5 lb.

**Grade 5 Electrical Ratings**
- Continuous Current: 400 (AMPS)
- Fault Current - 15 Cycles (AMPS): 43,000
- Fault Current - 30 Cycles (AMPS): 30,000
- Main Line: Min. - # 6 Sol. Cu. (.162”)
  Max. - 3000 kcmil (2”)

**Grade 5H** - The R-GC-2A/2B clamps have been tested to meet Grade 5H to support X/R=30 ratio applications, when used with approved 5H rated components, cables, and assemblies.

**R-GC-2B**
Serrated Jaw
ASTM TYPE I
Class A • Grade 5/5H

**R-GC-2A**
Smooth Jaw
ASTM TYPE I
Class A • Grade 5/5H

See reverse for additional options

**RELIABLE EQUIPMENT & SERVICE CO., INC.**
301 Ivyland Road • Warminster, PA 18974
Phone: 800-966-3530 • Fax: 215-357-0363
www.Reliable-Equip.com
**2” “C” TYPE GROUND CLAMPS**

**MADE IN THE U.S.A.**

**R-GC-2BC**

Serrated Jaw

ASTM TYPE I

Class B • Grade 5H

**R-GC-2AC**

Smooth Jaw

ASTM TYPE I

Class A • Grade 5H

---

**“C” Type Grounding Clamp**

ASTM: Grade 5H

ALUMINUM • TYPE I

Stainless Steel Eye Screw w/ Fine Threads

Tapped for 5/8-11 UNC Ferrule

**Electrical Ratings**

Continuous Current: 400 (AMPS)

Fault Current - 15 Cycles (AMPS): 43,000

Fault Current - 30 Cycles (AMPS): 30,000

Main Line: Min. - # 6 Sol. Cu. (.162")

Max. - 3000 kcmil (2’’)

Weight: 2.5 lbs.

---

**RELIABLE EQUIPMENT & SERVICE CO., INC.**

301 Ivyland Road • Warminster, PA 18974

Phone: 800-966-3530 • Fax: 215-357-0363

www.Reliable-Equip.com
BRONZE GROUND CLAMPS
“C” TYPE (.81 & 1.25 MAX.)

R-BGC-.81
“C” Type Grounding Clamp
ASTM Type 1 • Class A • Grade 2
Bronze Body Smooth Jaws
Bronze Eye Screw with Fine Threads
Drilled for 5/8-11 UNC Ferrule
Electrical Ratings
Continuous Current 250 (AMPS)
Fault Current - 15 Cycles (AMPS) 21,000
Fault Current - 30 Cycles (AMPS) 15,000
Mechanical Ratings
Main Line: Min. - # 6 Sol. Cu. (.162")
Max. - 477 kcmil ACSR (.81")
Weight: 1.5 lbs.

R-BGC-1.25
“C” Type Grounding Clamp
ASTM Type 1 • Class A • Grade 5
Bronze - Smooth Jaws w/ Flat Lower Jaw
Bronze Eye Screw with ACME Threads
Tapped for 5/8-11 UNC Ferrule
Includes: Clear Strain Relief Sleeve
Electrical Ratings
Continuous Current 400 RMS Amps, 60 Hz
Fault Current - 15 Cycles (AMPS) 43,000
Fault Current - 30 Cycles (AMPS) 30,000
Mechanical Ratings
Main Line: Min. - # 6 Sol. Cu. (.162")
Max. - 1035.5 MCM ACSR (1.25")
Weight: 2.2 lbs.

NOTE: Check ALL specifications to ensure clamp design & ratings match application.
**REL-BUS-6.62**

6.62” ALUMINUM “C” CLAMP FOR SUBSTATION BUSES ROUND, SQUARE, RECTANGLE, OR “H” SECTION

---

**CLAMP DESCRIPTION**

- SMOOTH JAW
- FLAT LOWER JAW
- EYE SCREW
- CLEAR STRAIN RELIEF (NOT SHOWN)

- ASTM GRADE 5
- CLASS A
- MAIN LINE RANGE 6.12” I.P.S. 6.62” - .4” 168 mm - 40 mm Dia.
- CONTINUOUS CURRENT 400 RMS AMPS
- RATING 60HZ
- WEIGHT 6.9 LB. (3.1)
- NEAREST EQUIV. SALISBURY # 2991
**BALL STUD GROUNDING**

R-BS-GC
Ball Stud Clamp
ASTM TYPE I
Class A • Grade 5

R-BS-GC
BALL STUD SOCKET GROUND CLAMP
ASTM Type 1 • Class A • Grade 5
Bronze Body
Bronze Eye Screw with Fine Threads
Clear Strain Releif Sleeve
Tapped for 5/8-11 UNC Ferrule
Electrical Ratings
Continuous Current 400 (AMPS)
Fault Current - 15 Cycles (AMPS) 43,000
Fault Current - 30 Cycles (AMPS) 30,000

Mechanical Ratings
Grounding Cable - Min. # 2 to Max. 4/0
Weight: 1.2 lbs.

Competitive
Salisbury - 21190
Hubbell - C6002100
Hastings - 21720
Consult above manufacturers literature for current specifications.
REL-GSB
Pole Mounted Ground Cluster Support Bar

Hang grounding sets to facilitate lifting of clamps to the conductors.
Accepts all “C” type and duckbill grounding sets.
Copper support bar is 11” wide by 4-1/4” deep.
A Cluster Bar is specified by OSHA as an approved component of equipotential zone grounding systems.

Tested to ASTM F855 Grade 5
Continuous Current: 400 Amps
Fault Current - 15 cycles: 43,000 Amps
Fault Current - 30 cycles: 30,000 Amps

PLATED COPPER BAR

REL-GSB
Pole Mounted Cluster Ground Support Bar

Weight: 11 lbs.
REL-GSB-S
Pole Mounted Ground Cluster Support Bar with Pole Spike

Tested to ASTM F855 Grade 5
Continuous Current: 400 Amps
Fault Current - 15 cycles: 43,000 Amps
Fault Current - 30 cycles: 30,000 Amps

REL-GSB-S
Pole Mounted Ground Cluster Support Bar
Hang grounding sets to facilitate lifting of clamps to the conductors.
Accepts all “C” type and duckbill grounding sets.
Copper support bar is 11” wide by 4-1/4” deep.
A Cluster Bar is specified by OSHA as an approved component of equipotential zone grounding systems.
The ____ 4 Way Grounding Set provides a complete grounding assembly for 3 phase systems.

SET INCLUDES:

4 Ground Cable (____ ft.)
   ____ Yellow  ____ Clear
   (2) _____ ft., (1) ____ ft., (1) ____ ft. lengths

4 Ground Clamps
Selected to fit your application

1 Double Hanger Stud for raising of extraneous clamps.

1 R21702 4 Way Hub
(Shown right)

Weight: ____ lbs. (____ kgs)
Assembly: Grade __ - __ kA 15 Cycles
Clamps: Grade ____

TESTED TO MEET ASTM F855-04
RELIABLE’s R-T-GRND Temporary Screw Ground Rod will provide a ground where a system ground is not available. When installed, the 6’ spiraled ground rod develops less resistance than straight ground rods. (Actual resistance values depend upon soil properties)
The reusable Ground Rod is copper clad. The helix (spiral), handle and wing nut are bronze. Custom Assemblies are available.
Consult your RELIABLE representative.
REL-MGRD SERIES
Temporary or Permanent Grounding System

The REL-MGRD-TH provides an effective alternative to auger type grounding devices in situations where the work surface is extremely hard or frozen. A 5 foot section of 5/8 inch copper clad threaded ground rod is included.

OPTIONAL: REL-GR-ADP - Ground Rod Adapter for permanent installation of standard 5/8” ground rod.
REL-MGRD-TH - Ground Rod Driver with Handles
Size: 29-1/2” L x 7” W x 2-3/4” R     Weight: 28.5 lbs.
REL-MGRD - Ground Rod Driver without Handles
Size: 29-1/2” L x 2-3/4” R                    Weight: 23.5 lbs.

TEMPORARY INSTALLATION
1. Install & tighten thumb screw securing driver shaft.
2. Screw 5/8” threaded ground rod into threaded end of driver shaft.
3. Loosen thumb screw.
4. Grasp driver with both hands and impact rod down to desired depth.
5. Connect grounding cable from any equipment that is to be grounded to the temporary rod below driver body using a suitable connector clamp.

REMOVAL OF TEMPORARY GROUND ROD
1. Remove cable from temporary ground assembly.
2. Impact driver upward to remove rod from ground.
3. Tighten thumb screw.
4. Unscrew rod from driver and store.

RELIABLE EQUIPMENT & SERVICE CO., INC.
92 Steamwhistle Drive • Ivyland, PA 18974
Phone: 800-966-3530 • Fax: 215-357-9193
Visit us on the web at www.Reliable-Equip.com
REL-MGRD SERIES
Manual Ground Rod Driver

The REL-MGRDH provide a safe effective method of installing a standard 5/8 ground rod without the use of a sledge hammer, or powered ground rod drivers.

REL-MGRDH - Ground Rod Driver with Handles
Drive Shaft: 29-1/2" L x 7" W x 2-3/4" R        Weight: 28.5 lbs.

REL-MGRD-NH - Ground Rod Driver NO Handles
Drive Shaft: 29-1/2" L x 2-3/4" R                  Weight: 23.5 lbs.

INSTALLATION
1. Install & tighten thumb screw securing sliding impact shaft.
2. Slide driver over ground rod.
   Note: Thumb Screw at Top.
3. Grasp driver with both hands and impact rod down to desired depth.
4. Tighten thumb screw securing the sliding impact shaft and remove driver from rod.
5. Install grounding assembly as required by application.

DRIVE ROD BELOW GRADE
1. Remove grounding assembly.
2. Slide driver over ground rod.
   Note: Thumb Screw at Bottom.
3. Grasp driver with both hands and impact rod down to desired depth.

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In addition to the specifying criteria above, each part of a grounding set requires certain choices:

1. **Clamps**
   ASTM designations for Type, Class, and Grade given for clamps in this section.

2. **Ferrules**
   Copper or aluminum. Plain or threaded.

3. **Cable**
   Length required to reach application distances.
   **ASTM Type I** with black or yellow elastomer jackets for temperatures from -40°F (-40°C) through +194°F (+90°C).
   **ASTM Type III** with clear thermoplastic jacket for temperatures from +14°F (-10°C) through +140°F (+60°C) should be used only in well-ventilated areas.

4. **Support Stud**
   This option recommended on only one clamp to help control lifting the set to the first clamp attachment point.

5. **Shrink Tubing**
   This translucent option recommended for stress relief and inspection of cable strands between ferrule and jacket.

---

**INSTALLATION INFORMATION**

Several installation training aids are available on request.

Chance videotapes and technical manuals - provide more details on proper installation. **Consult your Reliable representative for any assistance.**
OVERHEAD DISTRIBUTION GROUNDING SET WITH PRESSURE-TYPE TERMINALS

This complete set of ground clamps, cable, and accessories gives all of the equipment needed for many types of distribution structures in one easy to use kit. The jumper terminals are factory crimped to the grounding cable.

The kit comes with ten C600-2276 clamps so that it can be used on conductors ranging from #8 to 1033 kcmil ACSR.

This kit was designed for use on the following types of structures:

- 7.2/12.5 kV .......... A1 through C24
- 14.4/24.9 kV ....... VA1 through VC9-3
- 46 kV ................. TP1 through TP5
- 69 kV ................. TS1 through TS3-2

The table below lists the various components completely assembled in the Distribution Grounding Set. (See diagram above for application)

**T600-0641 - Overhead Distribution Grounding Set** consists of:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Serrated jaw, &quot;C&quot; Clamp No. C600-2276</td>
<td>10</td>
<td>For Plain Plug Terminals</td>
</tr>
<tr>
<td>B</td>
<td>Ground Cluster Support</td>
<td>1</td>
<td>T600-1549</td>
</tr>
<tr>
<td>C</td>
<td>#2 Copper Ground Cable No. 6499</td>
<td>60 ft.</td>
<td>3 Cables 6 ft. long</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 Cable 12 ft. long</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 Cable 30 ft. long</td>
</tr>
<tr>
<td>D</td>
<td>#2 Plain Plug Ferrules</td>
<td>10</td>
<td>Cat. No. C600-2626</td>
</tr>
<tr>
<td>E</td>
<td>Clamp Support Stud</td>
<td>3</td>
<td>Cat. No. G3626</td>
</tr>
<tr>
<td>F</td>
<td>Screw Ground Rod</td>
<td>1</td>
<td>Cat. No. G3370</td>
</tr>
</tbody>
</table>

**CLUSTER SUPPORT, 1-TERMINAL TYPE**

Conveniently hangs grounding sets on the pole to facilitate lifting clamps - one at a time to the conductors. Accepts plain ferrules on #2 to 4/0 grounding cable. Copper bar length is 11".

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>C600-0152</td>
<td>Ground Cluster Support</td>
<td>9-1/2 lb.</td>
</tr>
</tbody>
</table>
C600-2271
Bronze body, Smooth jaws,
Bronze eyescrew with fine threads,
Drilled terminal, no threads

C600-1754
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
5/8-11 UNC terminal threads

C600-2275
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2276
Aluminum body, Serrated jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2281
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2271
Bronze body, Smooth jaws,
Bronze eyescrew with fine threads,
Drilled terminal, no threads

C600-1754
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
5/8-11 UNC terminal threads

C600-2275
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2276
Aluminum body, Serrated jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2281
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2271
Bronze body, Smooth jaws,
Bronze eyescrew with fine threads,
Drilled terminal, no threads

C600-1754
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
5/8-11 UNC terminal threads

C600-2275
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2276
Aluminum body, Serrated jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2281
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2271
Bronze body, Smooth jaws,
Bronze eyescrew with fine threads,
Drilled terminal, no threads

C600-1754
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
5/8-11 UNC terminal threads

C600-2275
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2276
Aluminum body, Serrated jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2281
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2271
Bronze body, Smooth jaws,
Bronze eyescrew with fine threads,
Drilled terminal, no threads

C600-1754
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
5/8-11 UNC terminal threads

C600-2275
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2276
Aluminum body, Serrated jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2281
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2271
Bronze body, Smooth jaws,
Bronze eyescrew with fine threads,
Drilled terminal, no threads

C600-1754
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
5/8-11 UNC terminal threads

C600-2275
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2276
Aluminum body, Serrated jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

C600-2281
Aluminum body, Smooth jaws,
Bronze eyescrew with Acme threads,
Bronze pressure-type terminal

**C-TYPE GROUNDING CLAMPS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>C600-2271</th>
<th>C600-1754</th>
<th>C600-2275</th>
<th>C600-2276</th>
<th>C600-2281</th>
<th>C600-2255</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELECTRICAL RATINGS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cont. Current (AMPS)</td>
<td>400</td>
<td>350</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Fault Current - 15 Cycles (AMPS)</td>
<td>43,000</td>
<td>28,000</td>
<td>43,000</td>
<td>43,000</td>
<td>43,000</td>
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<tr>
<td>Fault Current - 30 Cycles (AMPS)</td>
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<td>20,000</td>
<td>30,000</td>
<td>30,000</td>
<td>30,000</td>
<td>30,000</td>
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<tr>
<td><strong>MECHANICAL RATINGS</strong></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recommended Torque (in.-lb.)</td>
<td>350</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>Main Line Range - Max.</td>
<td>1033 kcmil ACSR (1.25&quot;)</td>
<td>750 kcmil Str. Cu. 636kcmil ACSR (.998&quot;)</td>
<td>1033 kcmil ACSR (1.25&quot;)</td>
<td>1033 kcmil ACSR (1.25&quot;)</td>
<td>2&quot; O.D. Bus</td>
<td>2&quot; O.D. Bus</td>
</tr>
<tr>
<td>Main Line Range - Min.</td>
<td>#6 Sol. Cu. (0.162&quot;)</td>
<td>#8 Sol. Cu. (0.128&quot;)</td>
<td>#8 Sol. Cu. (0.128&quot;)</td>
<td>#8 Sol. Cu. (0.128&quot;)</td>
<td>#6 Sol. Cu. (0.162&quot;)</td>
<td>#6 Sol. Cu. (0.162&quot;)</td>
</tr>
<tr>
<td>Jumper Range - Min</td>
<td>#2 Grd. Cable w/ Thrd. Stud</td>
<td>#2 Grd. Cable w/ Thrd. Stud</td>
<td>#2 Grd. Cable w/ Plain Plug</td>
<td>#2 Grd. Cable w/ Plain Plug</td>
<td>#2 Grd. Cable w/ Plain Plug</td>
<td>#2 Grd. Cable w/ Thrd. Stud</td>
</tr>
<tr>
<td>Weight, Each</td>
<td>2 lb.</td>
<td>1 lb.</td>
<td>1-1/4 lb.</td>
<td>1-1/4 lb.</td>
<td>2 lb.</td>
<td>1-3/4 lb.</td>
</tr>
<tr>
<td>ASTM Designation</td>
<td>Type I Class A Grade 5</td>
<td>Type I Class A Grade 3</td>
<td>Type I Class A Grade 5</td>
<td>Type I Class A Grade 5</td>
<td>Type I Class A Grade 5</td>
<td>Type I Class A Grade 5</td>
</tr>
</tbody>
</table>
### “C” Style Grounding Clamps

<table>
<thead>
<tr>
<th>Part No.</th>
<th>4200</th>
<th>4388</th>
<th>9985</th>
<th>4187</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Material</td>
<td>Bronze</td>
<td>Aluminum</td>
<td>Bronze</td>
<td>Bronze</td>
</tr>
<tr>
<td>Jaw Style</td>
<td>Smooth (U)</td>
<td>Smooth (U)</td>
<td>Smooth (U)</td>
<td>Serrated (U)</td>
</tr>
<tr>
<td>Thread</td>
<td>Curved (L)</td>
<td>Curved (L)</td>
<td>Flat (L)</td>
<td>Curved (L)</td>
</tr>
<tr>
<td>“V”</td>
<td></td>
<td>Acme</td>
<td></td>
<td>Acme</td>
</tr>
</tbody>
</table>

### Electrical Ratings

| | Continuous Current |
| | 300 RMS Amps / 60 Hz | 400 RMS Amps / 60 Hz |

### Mechanical Specs

| | Main Line Range - Max. | Main Line Range - Min. | Maximum Cable Dia. | Minimum Cable Dia. | Weight, Each | ASTM Designation | Grade |
| | 477 MCM | 795 MCM | 1033.5 MCM | 1590 MCM | | | |
| | 18 x 1 ACSR | 26 x 7 ACSR | 26 x 7 ACSR | 26 x 7 ACSR | | | |
| | #6 | #6 | #6 | #8 | | | |
| | .81 in. | 1.12 in. | 1.12 in. | 1.12 in. | | | |
| | .12 in. | .12 in. | .12 in. | .12 in. | | | |
| | 1.0 lb. | 1.1 lb. | 1.9 lb. | 1.19 lb. | | | |
| | Class A | Class A | Class A | Class B | | | |
| | Grade 3 | Grade 5 | Grade 5 | Grade 5 | | | |

### “C” Style Grounding Clamps 1.25” and 1.5” Sizes

<table>
<thead>
<tr>
<th>Part No.</th>
<th>9984</th>
<th>4255</th>
<th>1895</th>
<th>1893</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Material</td>
<td>Bronze</td>
<td>Bronze</td>
<td>Aluminum</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Jaw Style</td>
<td>Smooth (U)</td>
<td>Smooth (U)</td>
<td>Smooth (U)</td>
<td>Serrated (U)</td>
</tr>
<tr>
<td>Thread</td>
<td>Curved (L)</td>
<td>Flat (L)</td>
<td>Flat (L)</td>
<td>Flat (L)</td>
</tr>
</tbody>
</table>

### Electrical Ratings

| | Continuous Current |
| | 400 RMS Amps / 60 Hz |

### Mechanical Specs

| | Main Line Range - Max. | Main Line Range - Min. | Maximum Cable Dia. | Minimum Cable Dia. | Weight, Each | ASTM Designation | Grade |
| | 1035.5 MCM | 1035.5 MCM | 1431 MCM | 1431 MCM | | | |
| | #6 | #6 | #6 | #6 | | | |
| | 1.25 in. | 1.25 in. | 1.5 in. | 1.5 in. | | | |
| | .16 in. | .16 in. | .16 in. | .16 in. | | | |
| | 2.2 lb. | 2.2 lb. | 1.7 lb. | 1.8 lb. | | | |
| | Class A | Class B | Class A | Class B | | | |
| | Grade 5 | Grade 5 | Grade 5 | Grade 5 | | | |
SALISBURY

“C” STYLE GROUNDING CLAMPS

2” SIZE W/ CURVED LOWER JAW

<table>
<thead>
<tr>
<th>Part No.</th>
<th>21075</th>
<th>20882</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Material</td>
<td>Aluminum</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Jaw Style</td>
<td>Smooth</td>
<td>Serrated</td>
</tr>
<tr>
<td>Thread</td>
<td>Acme</td>
<td></td>
</tr>
</tbody>
</table>

**ELECTRICAL RATINGS**

| Continuous Current | 400 RMS Amps / 60Hz |

**MECHANICAL SPECS**

<table>
<thead>
<tr>
<th>Main Line Range - Max.</th>
<th>3000 KCM</th>
<th>3000 KCM</th>
</tr>
</thead>
<tbody>
<tr>
<td># 6</td>
<td></td>
<td># 6</td>
</tr>
<tr>
<td>Main Line Range - Min.</td>
<td>2 in.</td>
<td>2 in.</td>
</tr>
<tr>
<td>Maximum Cable Dia.</td>
<td>.16 in.</td>
<td>.16 in.</td>
</tr>
<tr>
<td>Minimum Cable Dia.</td>
<td>2.0 lb.</td>
<td>2.1 lb.</td>
</tr>
<tr>
<td>Weight, Each</td>
<td>Class A</td>
<td>Class B</td>
</tr>
<tr>
<td>ASTM Designation</td>
<td>Grade 5</td>
<td>Grade 5</td>
</tr>
</tbody>
</table>

2.4” SIZE W/ FLAT LOWER JAW - ACME THREAD

<table>
<thead>
<tr>
<th>Part No.</th>
<th>1923</th>
<th>4377</th>
<th>1921</th>
<th>4295</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Material</td>
<td>Aluminum</td>
<td>Aluminum</td>
<td>Aluminum</td>
<td>Bronze</td>
</tr>
<tr>
<td>Jaw Style</td>
<td>Smooth</td>
<td>Smooth</td>
<td>Serrated</td>
<td>Smooth</td>
</tr>
</tbody>
</table>

**ELECTRICAL RATINGS**

<table>
<thead>
<tr>
<th>Continuous Current</th>
<th>350 RMS Amps</th>
<th>400 RMS Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 Hz</td>
<td>60 Hz</td>
<td></td>
</tr>
</tbody>
</table>

**MECHANICAL SPECS**

<table>
<thead>
<tr>
<th>Main Line Range - Max.</th>
<th>2” I.P.S.</th>
<th>2” I.P.S.</th>
<th>2” I.P.S.</th>
<th>2” I.P.S.</th>
</tr>
</thead>
<tbody>
<tr>
<td># 6</td>
<td></td>
<td># 6</td>
<td></td>
<td># 6</td>
</tr>
<tr>
<td>Main Line Range - Min.</td>
<td>2.4 in.</td>
<td>2.4 in.</td>
<td>2.4 in.</td>
<td>2.4 in.</td>
</tr>
<tr>
<td>Maximum Cable Dia.</td>
<td>.16 in.</td>
<td>.16 in.</td>
<td>.16 in.</td>
<td>.16 in.</td>
</tr>
<tr>
<td>Minimum Cable Dia.</td>
<td>2.1 lb.</td>
<td>2.1 lb.</td>
<td>2.2 lb.</td>
<td>4.1 lb.</td>
</tr>
<tr>
<td>Weight, Each</td>
<td>Class A</td>
<td>Class A</td>
<td>Class B</td>
<td>Class A</td>
</tr>
<tr>
<td>ASTM Designation</td>
<td>Grade 5</td>
<td>Grade 5</td>
<td>Grade 5</td>
<td>Grade 5</td>
</tr>
</tbody>
</table>
### DUCK BILL GROUNDING CLAMPS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>1793</th>
<th>21030</th>
<th>1853</th>
<th>1852</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Construction Material</strong></td>
<td>Bronze</td>
<td>Aluminum</td>
<td>Aluminum</td>
<td>Aluminum</td>
</tr>
<tr>
<td><strong>Jaw Style</strong></td>
<td>Smooth</td>
<td>Smooth</td>
<td>Serrated</td>
<td>Smooth</td>
</tr>
<tr>
<td><strong>Thread</strong></td>
<td>Gravity Actuated &quot;V&quot;</td>
<td>Spring Loaded Acme</td>
<td>Acme</td>
<td>Acme</td>
</tr>
<tr>
<td><strong>ELECTRICAL RATINGS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous Current</td>
<td>350 RMS Amps 60 Hz</td>
<td>400 RMS Amps 60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MECHANICAL SPECS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Main Line Range - Max.</td>
<td>556 MCM</td>
<td>795 KCM</td>
<td>1033.5 MCM</td>
<td>1590 MCM</td>
</tr>
<tr>
<td>Main Line Range - Min.</td>
<td>#6</td>
<td>#6</td>
<td>#6</td>
<td>#6</td>
</tr>
<tr>
<td>Maximum Cable Dia.</td>
<td>.96 in.</td>
<td>1.1 in.</td>
<td>1.25 in.</td>
<td>1.66 in.</td>
</tr>
<tr>
<td>Minimum Cable Dia.</td>
<td>.16 in.</td>
<td>.16 in.</td>
<td>.16 in.</td>
<td>.16 in.</td>
</tr>
<tr>
<td>Weight, Each</td>
<td>1.3 lb.</td>
<td>1.1 lb.</td>
<td>1.5 lb.</td>
<td>1.1 lb.</td>
</tr>
<tr>
<td>ASTM Designation</td>
<td>Class A Grade 4</td>
<td>Class A Grade 5</td>
<td>Class A Grade 5</td>
<td>Class A Grade 5</td>
</tr>
</tbody>
</table>

### SNAP-ON (DUCKBILL-TYPE) GROUNDING CLAMPS

<table>
<thead>
<tr>
<th>A.B. CHANCE Part No.</th>
<th>G3622-1</th>
<th>T600-0806</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELECTRICAL RATINGS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cont. Current (AMPS)</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Fault Current - 15 Cycles</td>
<td>36,000</td>
<td>43,000</td>
</tr>
<tr>
<td>Fault Current - 30 Cycles (Amps)</td>
<td>25,000</td>
<td>30,000</td>
</tr>
<tr>
<td><strong>MECHANICAL RATINGS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recommended Torque (in.-lb.)</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>Main Line Range - Max.</td>
<td>566 kcmil Cu. 900 kcmil ACSR (1.162&quot;)</td>
<td>1590 kcmil ACSR (1.625&quot;)</td>
</tr>
<tr>
<td>Main Line Range - Min.</td>
<td>#6 Sol. Cu. (0.162&quot;)</td>
<td>0.5&quot;</td>
</tr>
<tr>
<td>Jumper Range - Max</td>
<td>4/0 Grd. Cable w/ Plain Plug</td>
<td>4/0 Grd. Cable w/ Plain Plug</td>
</tr>
<tr>
<td>Jumper Range - Min.</td>
<td>#2 Grd. Cable w/ Plain Plug</td>
<td>#2 Grd. Cable w/ Plain Plug</td>
</tr>
<tr>
<td>Weight, Each</td>
<td>1-1/2 lb.</td>
<td>1-3/4 lb.</td>
</tr>
<tr>
<td>ASTM Designation</td>
<td>Type I Class A Grade 4</td>
<td>Type I Class B Grade 5</td>
</tr>
</tbody>
</table>

![G3622-1](image)
Aluminum body, Smooth jaws, Bronze eyescrew with fine threads, Bronze pressure-type terminal

![T600-0806](image)
Aluminum body, Serrated jaws, Bronze eyescrew with fine threads, Bronze pressure-type terminal
### A.B. Chance - Tower and Flat-Face Grounding Clamps

<table>
<thead>
<tr>
<th>Part No.</th>
<th>G3363-3SJ</th>
<th>C600-2231</th>
<th>C3363-4SJ</th>
<th>G3363-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Material</td>
<td>Aluminum</td>
<td>Bronze</td>
<td>Aluminum</td>
<td>Bronze</td>
</tr>
<tr>
<td>Jaw Style</td>
<td>Serrated</td>
<td>Serrated</td>
<td>Serrated</td>
<td>Serrated</td>
</tr>
<tr>
<td>Terminal</td>
<td>P/T</td>
<td>P/T</td>
<td>P/T</td>
<td>P/T</td>
</tr>
</tbody>
</table>

#### Electrical Ratings

<table>
<thead>
<tr>
<th></th>
<th>G3363-3SJ</th>
<th>C600-2231</th>
<th>C3363-4SJ</th>
<th>G3363-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cont. Current (AMPS)</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Fault Current - 15 Cycles (AMPS)</td>
<td>25,000</td>
<td>43,000</td>
<td>25,000</td>
<td>25,000</td>
</tr>
<tr>
<td>Fault Current - 30 Cycles (AMPS)</td>
<td>25,000</td>
<td>30,000</td>
<td>25,000</td>
<td>25,000</td>
</tr>
</tbody>
</table>

#### Mechanical Specs

<table>
<thead>
<tr>
<th></th>
<th>G3363-3SJ</th>
<th>C600-2231</th>
<th>C3363-4SJ</th>
<th>G3363-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Line Range - Max.</td>
<td>1-1/2&quot; Flat and Angles</td>
<td>1-1/2&quot; Flat and Angles</td>
<td>1-1/2&quot; Flat and Angles</td>
<td>1-1/2&quot; Flat and Angles</td>
</tr>
<tr>
<td>Main Line Range - Min.</td>
<td>1/8&quot;</td>
<td>1/8&quot;</td>
<td>1/8&quot;</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>Jumper Range - Max.</td>
<td>4/0 Grd. Cable w/ Plain Plug</td>
<td>4/0 Grd. Cable w/ Thrd. Stud</td>
<td>4/0 Grd. Cable w/ Plain Plug</td>
<td>4/0 Grd. Cable w/ Plain Plug</td>
</tr>
<tr>
<td>Jumper Range - Min.</td>
<td>#2 Grd. Cable w/ Plain Plug</td>
<td>#2 Grd. Cable w/ Thrd. Stud</td>
<td>#2 Grd. Cable w/ Plain Plug</td>
<td>#2 Grd. Cable w/ Plain Plug</td>
</tr>
<tr>
<td>Weight, Each</td>
<td>1-5/8 lb.</td>
<td>2 lb.</td>
<td>1-5/8 lb.</td>
<td>2-1/2 lb.</td>
</tr>
<tr>
<td>ASTM Designation</td>
<td>Type I Class A Grade 5</td>
<td>Type III Class A Grade 5</td>
<td>Type III Class A Grade 5</td>
<td>Type III Class A Grade 3</td>
</tr>
</tbody>
</table>
### CLUSTER GROUNDING-CLAMP SETS

**A.B. CHANCE - Part No.** G3405, G3803

#### ELECTRICAL RATINGS

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>ASTM</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four Way Connector Ground Set</td>
<td>1</td>
<td>Grade 5</td>
<td>28 lbs.</td>
</tr>
</tbody>
</table>

Cont. Current (AMPS) 350 400

Fault Current - 15 Cycles (Amps) 28,500 36,000

Fault Current - 30 Cycles (Amps) 20,000 35,000

#### MECHANICAL RATINGS

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>ASTM</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>25027 Ferrules</td>
<td>4 pr.</td>
<td>Grade 5</td>
<td>1.8 lbs.</td>
</tr>
</tbody>
</table>

- **Recommended Torque (in.-lb.)**: Main Line Range - Max. 250 250
- **Main Line Range - Max.**: 400 kcmil Str. Cu.
  636 kcmil ACSR (.998")
  566 kcmil Cu.
  900 kcmil ACSR (1.162")

- **Main Line Range - Min.**: #8 Sol. Cu. (0.12")
  #6 Sol. Cu. (0.162")

- **Jumper Range - Max**: 2/0 Grd. Cable w/ Plain Plug
  4/0 Grd. Cable w/ Plain Plug

- **Jumper Range - Min.**: #2 Grd. Cable w/ Plain Plug
  #2 Grd. Cable w/ Plain Plug

- **Weight, Each**: 4-1/2 lb. 6-5/8 lb.

**ASTM Designation**: Type I
- **Class A**: Grade 3
- **Class B**: Grade 4

#### IMPORTANT NOTE

Cluster Sets are furnished as shown (Right). The center clamp is bolted to the cluster bar. Typical configuration requires a fourth clamp and grounding cable which must be ordered separately. Contact Reliable for more information.
BALL AND SOCKET GROUNDING SYSTEM

Allows for variable angle accessibility. This system is compact and lightweight. There are fixed grounding points on the socket clamp.

21190 - Socket Clamp - Made from bronze alloy, has a 1 inch socket and a 5/8”-11 UNC threaded bore boss.

**GROUNDING CLAMPS FOR SUBSTATION BUSES**

<table>
<thead>
<tr>
<th>SALISBURY - Part No.</th>
<th>4282</th>
<th>4341</th>
<th>2991</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Material</td>
<td>Aluminum</td>
<td>Aluminum</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Jaw Style</td>
<td>Smooth (U) Flat (L)</td>
<td>Smooth (U) Flat (L)</td>
<td>Smooth (U) Flat (L)</td>
</tr>
</tbody>
</table>

**ELECTRICAL RATINGS**

Continuous Current 400 RMS Amps / 60Hz

**MECHANICAL SPECIFICATIONS**

| Main Line Range - Max. | 3” I.P.S. | 3” I.P.S. | 6.12” I.P.S. |
| Main Line Range - Min. | 1.5” I.P.S. | #6 | Adj. |
| Maximum Cable Dia. | 3.5 in. | 3.5 in. | 6.62 in. |
| Minimum Cable Dia. | 1.75 in. | 1.6 in. | 4.0 in. |
| Weight, Each | 2.8 lb. | 2.9 lb. | 6.9 lb. |
| ASTM Designation | Class A | Class A | Class A |
| Grade | 5 | 5 | 5 |

**BALL AND SOCKET GROUNDING SYSTEM**

Long and Short Ball Stud, and the offset NEMA Pad Ball Studs are made from a Tin-Plated Copper Alloy. They each have a 1 inch ball.

**THREADED SHORT AND LONG BALL STUD** - The short stud is used conventionally, while the long stud may also be used with “C” or Duckbill clamps that have a jaw width of 2.75 inch or less. 1/2”-13 UNC x 2” TH, 300 in. lbs. recommended installation torque.

**OFFSET NEMA PAD BALL STUD** - Has the standard bolt hole spacing and is available in both long and short lengths.

**INTERNAL THREAD BALL STUD** - Is tapped for a 1/2-13 UNC bolt having a length of at least 1 inch.

**Part No.** | **Description** | **ASTM** | **Cont. Current** | **Wt. Ea.**
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>21190</td>
<td>Socket Clamp W/ Strain Relief Sleeve</td>
<td>Grade 5</td>
<td>400</td>
<td>1.2 lbs.</td>
</tr>
<tr>
<td>21191</td>
<td>Ball Stud Short</td>
<td>4.38 Inch</td>
<td>.53 lb.</td>
<td></td>
</tr>
<tr>
<td>21192</td>
<td>Ball Stud Long</td>
<td>6.13 Inch</td>
<td>.81 lb.</td>
<td></td>
</tr>
<tr>
<td>21228</td>
<td>Offset NEMA Pad Short</td>
<td>5.13 in. x 1.5 in.</td>
<td>.84 lb.</td>
<td></td>
</tr>
<tr>
<td>24087</td>
<td>Offset NEMA Pad Long</td>
<td>7 in. x 1.5 in.</td>
<td>1 lb.</td>
<td></td>
</tr>
<tr>
<td>24082</td>
<td>Internal Thread Ball Stud</td>
<td>4 inch</td>
<td>.54 lb.</td>
<td></td>
</tr>
<tr>
<td>21236</td>
<td>Cover for Ball Stud</td>
<td></td>
<td>.09 lb.</td>
<td></td>
</tr>
</tbody>
</table>
UNDERGROUND DISTRIBUTION GROUNDING SETS

TRANSFORMER GROUNDING SETS

Each set includes an orange-jacketed elbow for the voltage-class indicated below, 6 feet of 1/0 copper grounding cable with clear jacket, and bronze grounding clamp T600-0466.

Fault current rating for each set: 10,000 amps for 10 cycles

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C600-0729</td>
<td>15 kV Single-0 Transformer Grd. Set</td>
<td>4 lb.</td>
</tr>
<tr>
<td>T600-2131</td>
<td>25 kV Single-0 Transformer Grd. Set</td>
<td>6 lb.</td>
</tr>
<tr>
<td>C600-1927</td>
<td>35 kV Single-0 Transformer Grd. Set</td>
<td>8 lb.</td>
</tr>
</tbody>
</table>

Optional Storage Bag # T600-0865.

GROUNDED PARKING STAND

This set provides a grounded surface for the jacketed elbow after it is removed from the transformer bushing and tested to determine if it is de-energized. Set includes bronze ground clamp and 4 ft. of 1/0 yellow ground cable.

Fault current rating for each set: 10,000 amps for 10 cycles

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Application</th>
<th>Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>T600-0730</td>
<td>15 kV</td>
<td>7 lb.</td>
</tr>
<tr>
<td>T600-2124</td>
<td>25 kV</td>
<td>8 lb.</td>
</tr>
</tbody>
</table>

Optional Storage Bag # T600-0865.

TEMPORARY GROUNDING SET

Each of these sets consists of a three-way terminal block assembly, three 6-ft. lengths of 2/0 copper ground cable with clear jacket, a ground clamp, and three orange elbows.

Fault current rating for each set: 10,000 amps for 10 cycles

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Application</th>
<th>Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C600-0759</td>
<td>15 kV</td>
<td>14.5 lb.</td>
</tr>
<tr>
<td>T600-2132</td>
<td>25 kV</td>
<td>15 lb.</td>
</tr>
</tbody>
</table>

Optional Storage bag # T600-0865.

TEMPORARY GROUNDING SETS

C-Clamp or Ball-Stud Set includes a three-way copper terminal block, four bronze ground clamps and three 6’ lengths of 2/0 copper clear-jacket ground cable with threaded-stud copper ferrules. C-clamps are T600-0466. Ball-studs and clamps are C600-2102 and C600-2100.

Fault current ratings: 37,000 amps for 15 cycles
26,000 amps for 30 cycles

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C600-0758</td>
<td>C-Clamp Live-Front Grd. Set</td>
<td>15 lb.</td>
</tr>
</tbody>
</table>

Optional Storage bag # T600-0865.

RELIABLE EQUIPMENT & SERVICE CO., INC.
Shrouded Ferrules overlap the grounding cable jacket for stress relief to the terminal. Two crimps secure the ferrule to the bare strands and one crimp applies the jacket.

Unshrouded Ferrules are available with shrink tubing that overlaps the bare cable conductor and jacket for stress relief. Available factory-installed in pairs on any cable length or as individual units. Ferrules install with a hydraulic crimping tool.

Unshrouded Threaded Ferrules
For tapped or drilled terminals.

P600-1593 - Clear Heat-Shrink Tubes provide corrosion-inhibitor by excluding moisture and stress-relief for cable jacket and ferrule-to-stranding connection.

Copper Grounding Cable - Jacketing is smooth abrasion, weather and oil resistant (Meets applicable ASTM Specs). AWG size is marked approximately every 4 feet. Yellow and black jackets are T-prene rubber compound with a recommended low temperature of -20°F. Clear jackets (allow visual inspection) are UV-inhibited PVC with a recommended low temperature of 0°F. Extra-flexible cables, because of their extra-fine strands, require termination ferrules when used with ground clamps. Either aluminum or copper ferrules may be used with copper cable.

<table>
<thead>
<tr>
<th>A.B. CHANCE</th>
<th>SALISBURY</th>
<th>APPROX WT. *(lb./1,000 ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow-Jacket Copper Cable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S6116</td>
<td>2136</td>
<td>2</td>
</tr>
<tr>
<td>S6117</td>
<td>2137</td>
<td>1/0</td>
</tr>
<tr>
<td>S6118</td>
<td>2138</td>
<td>2/0</td>
</tr>
<tr>
<td>S6119</td>
<td>2139</td>
<td>4/0</td>
</tr>
<tr>
<td>Clear-Jacket Copper Cable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S6449</td>
<td>2128</td>
<td>2</td>
</tr>
<tr>
<td>S7568</td>
<td>2129</td>
<td>1/0</td>
</tr>
<tr>
<td>S6450</td>
<td>2133</td>
<td>2/0</td>
</tr>
<tr>
<td>S6451</td>
<td>2288</td>
<td>4/0</td>
</tr>
<tr>
<td>Black-Jacket Copper Cable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S3713</td>
<td>2636</td>
<td>2</td>
</tr>
<tr>
<td>S7515</td>
<td>2637</td>
<td>1/0</td>
</tr>
<tr>
<td>S3712</td>
<td>2638</td>
<td>2/0</td>
</tr>
<tr>
<td>S3714</td>
<td>2639</td>
<td>4/0</td>
</tr>
</tbody>
</table>

* Strand count may vary with manufacturer.

Ferrules for Pressure Type Grounding-Clamp Terminals

<table>
<thead>
<tr>
<th>Application</th>
<th>Unshrouded Ferrules</th>
<th>Shrouded Ferrules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burndy Die # or Equivalent</td>
<td>Cable Size AWG</td>
<td>Part # 1 Pr. Copper SALISBURY</td>
</tr>
<tr>
<td>U165</td>
<td>#2</td>
<td>24420</td>
</tr>
<tr>
<td>U165</td>
<td>1/0</td>
<td>24421</td>
</tr>
<tr>
<td>U165</td>
<td>2/0</td>
<td>24422</td>
</tr>
<tr>
<td>U166</td>
<td>4/0</td>
<td>24423</td>
</tr>
</tbody>
</table>
REL-954 SERIES
35kV JUMPER CLAMPS

954 MCM (.162” to 1.25” Line Range)
Clear or Orange Plastic Jumper Clamps
Bronze Body & Jaw
Clear model allows for easy inspection of
Cable & Ferrule assembly/installation.
Install #2 to 4/0 jumper cable
15 kV, 25 kV, & 35 kV cable options
Accepts 5/8”-11 UNC threaded ferrule
Light Weight & Strong (2.5 lbs. ea.)
Length: 11.5” OAL

CABLE
#2 - 4/0
MAX AMPS
CONTINUOUS
400
RATING
35 kV Ø-Ø

CUSTOM GROUND ASSEMBLY

Contact Inside Sales for Cable Options,
Production, and Shipping Estimates

CALL
800-966-3530

FAST and AFFORDABLE!

CLEAR - REL-CJC-954
ORANGE - REL-OJC-954

NOW AVAILABLE
INSPECTION, REPAIR,
AND RE-CERTIFICATION
OF JUMPERS AND
GROUND SETS
RELIABLE - R15 SERIES - INSULATED JUMPER SETS

Reliable Equipment offers a full range of preassembled Jumper Cables for bypassing work areas where equipment is under repair, the line is being upgraded, and for making temporary or other emergency repairs. Sets can be assembled to meet any of your conductor, AMP, line range, and cable length requirements from 1/0 to 4/0 in 15kV sets.

Jumper Cable - 5/15 kV Dual Rated

<table>
<thead>
<tr>
<th>Part</th>
<th>Size</th>
<th>AMP</th>
<th>Approx. Cable O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>R15-1/0</td>
<td>1/0</td>
<td>260</td>
<td>1,000</td>
</tr>
<tr>
<td>R15-2/0</td>
<td>2/0</td>
<td>300</td>
<td>1,055</td>
</tr>
<tr>
<td>R15-4/0</td>
<td>4/0</td>
<td>400</td>
<td>1,165</td>
</tr>
</tbody>
</table>

Jumper Clamps - (sold in pairs)

<table>
<thead>
<tr>
<th>Part</th>
<th>Range</th>
<th>AMP</th>
<th>Head Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>2115</td>
<td>#6 SOL to 954 ACSR</td>
<td>400</td>
<td>Clear Plastic</td>
</tr>
<tr>
<td>2270</td>
<td>#6 SOL to 954 ACSR</td>
<td>400</td>
<td>H/D Salcor</td>
</tr>
</tbody>
</table>

Ferrules (unshrouded) - (sold in pairs)

<table>
<thead>
<tr>
<th>Part</th>
<th>Cable</th>
<th>Stud</th>
<th>AMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>2023</td>
<td>1/0</td>
<td>5/8&quot;-.11 NC</td>
<td>400</td>
</tr>
<tr>
<td>2024</td>
<td>2/0</td>
<td>5/8&quot;-.11 NC</td>
<td>400</td>
</tr>
<tr>
<td>2025</td>
<td>4/0</td>
<td>5/8&quot;-.11 NC</td>
<td>400</td>
</tr>
</tbody>
</table>

How to order Jumper Sets

Specify cable size, length, and clamp style
Ex: R15-1/0 x 12-2270

Other kV size cables and clamps styles available upon request.
Contact Reliable for more information.

SALCOR® INSULATED CLAMPS

“Rubber covered” hot bypass jumper clamps. Metal components and conventional electrical/mechanical design.

Thermosetting Elastomer Handle, 11.5" O.A.L. with 1.5" I.D., 7.5" below Hand Guard.

<table>
<thead>
<tr>
<th>Part</th>
<th>Main Line Range</th>
<th>Description</th>
<th>Max. Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>2260</td>
<td>477 MCM, (30x7) ACSR to #6 Sol., .883&quot;-.162&quot; Dia.</td>
<td>Clamps, Insulated Jumper (Pair) Only</td>
<td>400</td>
</tr>
<tr>
<td>2270</td>
<td>954 MCM, (36x1) ACSR to #6 Sol., 1.14&quot;-.162&quot; Dia.</td>
<td>Clamps, Insulated Jumper (Pair) Only</td>
<td>400</td>
</tr>
</tbody>
</table>
CLEAR PLASTIC INSULATED JUMPER CLAMPS

Field application is rubber gloves installed for temporary jumper service on distribution lines. Large head with a moderate size handle. Compact, lightweight clamp. Polycarbonate (Lexan®) handle, 11.5" long, 7.5" below Hand Guard. Heat Deflec. Temp. ASTM D648 270° F at 264 psi.

<table>
<thead>
<tr>
<th>Part</th>
<th>Main Line Range</th>
<th>Description</th>
<th>Max Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>1785</td>
<td>477 MCM, (30x7) ACSR to #6 Sol., .883&quot;-.162&quot; Dia.</td>
<td>Clamps, Insulated Jumper (Pair) Only</td>
<td>400</td>
</tr>
<tr>
<td>2115</td>
<td>954 MCM, (36x1) ACSR to #6 Sol., 1.14&quot;-.162&quot; Dia.</td>
<td>Clamps, Insulated Jumper (Pair) Only</td>
<td>400</td>
</tr>
</tbody>
</table>

PLASTIC INSULATED HOT BYPASS JUMPER CLAMPS

Self lubricating sintered bronze thrust bearing efficiently converts torque to main line contact pressure for minimum electrical resistance. Blunted points on the handle provide optimum grip, resists impact and will not soften with overloads. 11" fiberglass reinf. thermosetting plastic handle. 6.75" below Hand Guard. Heat deflec. temp. ASTM D648 600° F + at 264 psi.

<table>
<thead>
<tr>
<th>Part</th>
<th>Main Line Range</th>
<th>Description</th>
<th>Max. Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>1610</td>
<td>954 MCM, (36x1), ACSR to #6 Sol., 1.14&quot;-.162&quot; Dia.</td>
<td>Clamps, Insulated Jumper (Pair) only</td>
<td>400</td>
</tr>
</tbody>
</table>

FERRULES FOR JUMPER CLAMPS

Manufactured of 99.5% pure copper and are tinplated to prevent galvanic action between the dissimilar metals. 5/8-11 NC threads. Designed for continuous service on either stick or glove installed jumpers.

Two ferrule styles are available.

**Shrouded** ferrules should only be used on “glove” installed high voltage jumpers, and not on “stick” installed insulating jumpers which have cable support clamp and strain relief system.

The shrouded ferrule is compressed on both the conductor and the insulating jacket of the high voltage EPR cable, reducing bending stresses at the termination.

**Unshrouded** cable ferrules work with all jumper & grounding cables regardless of jacket thickness.

<table>
<thead>
<tr>
<th>Shrouded Jumper Cable Ferrules</th>
<th>Unshrouded Ferrules</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part / Pair</strong></td>
<td><strong>Jumper Cable Size</strong></td>
</tr>
<tr>
<td><strong>Not Inst.</strong></td>
<td><strong>Installed</strong></td>
</tr>
<tr>
<td>2012</td>
<td>2012A</td>
</tr>
<tr>
<td>2013</td>
<td>2013A</td>
</tr>
<tr>
<td>2014</td>
<td>2014A</td>
</tr>
<tr>
<td>2015</td>
<td>2015A</td>
</tr>
<tr>
<td>21353</td>
<td>21353A</td>
</tr>
<tr>
<td>21354</td>
<td>21354A</td>
</tr>
<tr>
<td>21355</td>
<td>21355A</td>
</tr>
<tr>
<td>21356</td>
<td>21356A</td>
</tr>
<tr>
<td><strong>Part / Pair</strong></td>
<td><strong>Jumper Cable Size</strong></td>
</tr>
<tr>
<td><strong>Not Inst.</strong></td>
<td><strong>Installed</strong></td>
</tr>
<tr>
<td>2022</td>
<td>2022A</td>
</tr>
<tr>
<td>2023</td>
<td>2023A</td>
</tr>
<tr>
<td>2025</td>
<td>2025A</td>
</tr>
</tbody>
</table>

2750 - CONNECTOR LINK FOR INSULATED JUMPERS

Developed recently to connect two insulated jumpers in the field for longer jumper length. The assembly can be wrapped with a small rubber insulating blanket. 400 Amp Max.
If you have any questions regarding the information found in this document please contact RELIABLE EQUIPMENT at the address, phone or fax numbers shown below.