

Products You Trust, Quality You Expect, Safety You Need



## World Leader in Electrical Safety PPE Made in the USA

Salisbury understands how important you are to the lives that depend on you and our commitment is to keep you safe by providing electrical safety PPE that has been trusted for over 150 years. Trust in Salisbury PPE to keep you protected on the job and ensure you come home safe each day.



Scan the code and learn more about the best in class PPE equipment.

***SALISBURY***

by Honeywell



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# COMMON PROBLEMS TO LOOK FOR



**CRACKING & CUTTING:**

Shown above is damage caused by prolonged folding or compressing.



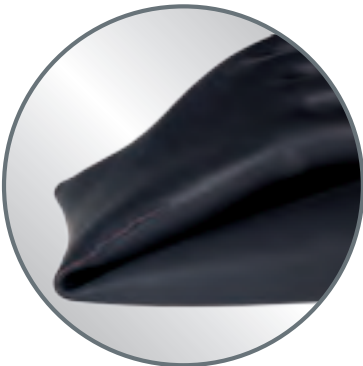
**UV CHECKING:**

Storing in areas exposed to prolonged sunlight causes UV checking.



**CHEMICAL ATTACK:**

This photo shows swelling caused by oils and petroleum compounds.



**AVOID FOLDING:**

The strain on rubber at a folded point is equal to stretching the rubber to twice its length.



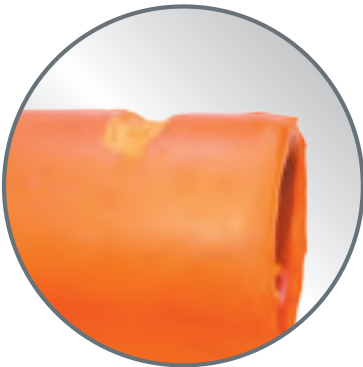
**SNAGS:**

Damage shown here is due to wood and metal splinters and other sharp objects.



**AVOID STORING INSIDE OUT:**

Storing reversed gloves strains the rubber severely and promotes ozone cutting.



**PHYSICAL DAMAGE:**

Rope burns, deep cuts and puncture hazards are cause for rejection.



**CONTAMINATION:**

Discard protectors contaminated with oil or petroleum compounds.



**EMBEDDED WIRES:**

Inspect for embedded wires or metal shavings that could puncture rubber gloves.

**Type I** natural (not resistant to ozone) and **Type II SALCOR®** synthetic rubber (resistant to ozone) both provide electrical workers with the highest level of electrical insulating protection. However, in order to maintain this level of protection and ensure long life, it is essential that rubber goods are properly cared for and stored. Before each use, rubber goods should be electrically and visually inspected for holes, rips or tears, ozone cutting, UV checking and signs of chemical deterioration, contamination, physical damage and embedded wires. Refer to ASTM F1236, standard guide for visual inspection of electrical protective rubber products for additional information.

# TEMPORARY PROTECTIVE GROUNDING EQUIPMENT



# TEMPORARY PROTECTIVE GROUNDING EQUIPMENT



## NOTE:

When ordering assemblies of grounding products, please make sure all items included in the assembly are only from the product line found within this section. Including items from other grounding equipment sections of this book will add additional shipping time.

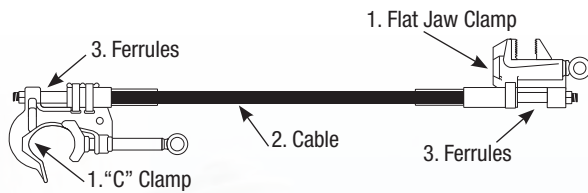
## Grounding Configurator™

The Grounding Configurator™ makes ordering grounding equipment simple and easy. This interactive web tool allows you to easily build the proper temporary grounding equipment for your specific needs. The step by step process takes out the guess work, and makes it easy to change components until the most appropriate ground set is developed.



Just go to our web site [www.salisburybyhoneywell.com](http://www.salisburybyhoneywell.com) and give it a try. You will be prompted from start to finish. All you need to know is the maximum fault current, its duration and the size of cable required on the fault, and the configurator will do the rest. No more second guessing quantities or parts to be sure that you have put together a ground set that will function just as you expect. When you finish, enter your personal information and the configurator will instantly provide you with the bill of materials including part numbers. All that's left to do is to place the order!

## GROUND SET CHECKLIST



**1. Specify the clamps.** Two are required for a complete assembly. The maximum amperage of the clamp is designated by the ASTM grade of each clamp. Be sure that the clamp will meet or exceed the maximum amperage rating of the ground cable that it will be used with.

**2. Specify the cable.** Once the short circuit capacity of the system has been determined, choose the appropriate size cable. Specify the cable length, and the color of the jacket desired.

**3. Specify the ferrules.** One pair of ferrules is required per assembly. The size of the ferrule must match the size of the cable that it will be used with. Specify copper or aluminum and shrouded or non-shrouded.

**4. Specify the options.** List any optional equipment that is desired. This can include hanger studs, contact studs, heat shrink tubing, markings, clear strain relief, etc.

Options also include a ground set label. These optional labels include the date of manufacture and are available upon request when ordering.



## HOW TO SPECIFY TEMPORARY PROTECTIVE GROUNDING ASSEMBLIES.

A grounding assembly in its basic form consists of two clamps, one pair of ferrules and a length of cable.

The clamps can be identical to each other or quite different depending on each grounding application. Because of this, ground clamps are sold individually, not in pairs. Salisbury offers a wide variety of clamps including C-clamps, flat jaw clamps, socket clamps, duckbill clamps and specialty clamps for unique situations. Clamps are offered in either bronze or aluminum alloys and are manufactured to meet the current specifications of ASTM F 855.

To attach a clamp to the grounding cable requires the use of a ferrule. Ferrules are compressed on the strands of the cable to provide a low resistance permanent connection. The size of the ferrule is determined by the size of the cable. Ferrules are available in aluminum or plated copper. Plated copper ferrules can be used with either aluminum or bronze clamps. Two ferrules are required for each assembly therefore they are sold in pairs. Ferrules are manufactured to the specifications of ASTM F 855.

The final component that makes up a ground set is the grounding cable itself. The size of the cable is dependent on the short circuit current capacity of the system being grounded. Once this is determined, only the length of the cable and the color of the jacket need to be specified to complete the assembly.

**Salisbury by Honeywell is your complete source for grounding equipment and assemblies.**

# DUCK BILL GROUNDING CLAMPS

.96", 1.1" AND 1.66" SIZES



1853



21030



1793



21754



1855 - Stick Mounted Duck Bill Clamp.

CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
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**.96" SMOOTH JAW BRONZE DUCK BILL -- GRAVITY ACTUATED - "V" THREAD**

1793	Eye w/ strain relief sleeve, Smooth Jaw	4 / A	556 MCM ACSR to #6 .96" - .16" (24 mm - 4 mm) Dia.	350 RMS Amps, 60 Hz	1.3 (.6)
21080	Eye w/ strain relief sleeve, Smooth Jaw	4 / A		350 RMS Amps, 60 Hz	1.1 (.5)
1797*	Mounted w/ strain relief sleeve, Smooth Jaw	4 / A		350 RMS Amps, 60 Hz	4.3 (2)
2093	Hanger Stud only				.4 (.1)

**1.1" SMOOTH JAW ALUMINUM DUCK BILL -- SPRING LOADED - "V" THREAD**

21030	Eye w/ strain relief sleeve, Smooth Jaw	5 / A	795 MCM ACSR to #6 1.1" - .16" (28 mm - 4 mm) Dia.	400 RMS Amps, 60 Hz	1.1 (.5)
21059	Eye w/o strain relief sleeve, Smooth Jaw	5 / A		400 RMS Amps, 60 Hz	1.0 (.5)
21081*	Mounted w/ strain relief sleeve, Smooth Jaw	5 / A		400 RMS Amps, 60 Hz	4.3 (2)
21754	Hanger Stud only				.3 (.1)

**1.66" SERRATED JAW ALUMINUM DUCK BILL -- SPRING LOADED - "V" THREAD**

2553	Eye w/o strain relief sleeve, Serrated Jaw	5 / B	1590 MCM ACSR to #6 1.66" - .16" (42 mm - 4 mm) Dia.	400 RMS Amps, 60 Hz	1.4 (.6)
1855*	Eye w/ strain relief sleeve, Serrated Jaw	5 / B		400 RMS Amps, 60 Hz	4.7 (2.1)
21754	Hanger Stud only				.3 (.1)

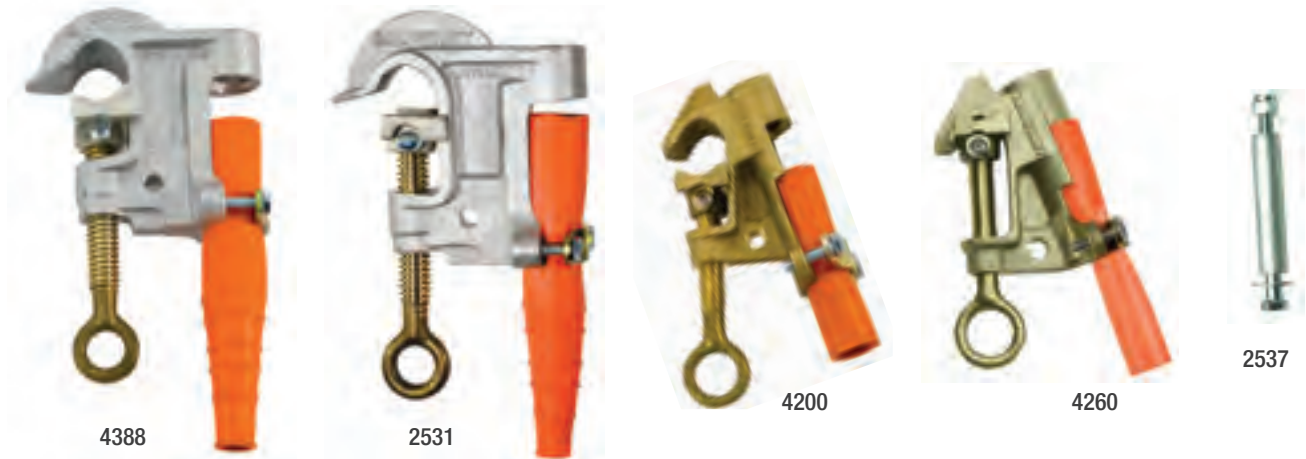
**1.66" SERRATED JAW ALUMINUM DUCK BILL -- ACME THREAD**

1853	Eye w/ strain relief sleeve, Serrated Jaw	5 / B	1590 MCM ACSR to #6 1.66" - .16" (42 mm - 4 mm) Dia.	400 RMS Amps, 60 Hz	1.5 (.7)
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\*Mounted 1.25" dia X 6' fiberglass hotstick permanently mounted.

# "C" TYPE GROUNDING CLAMPS

.83" AND 1.12" SIZES



CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
<b>.83" BRONZE "C" CLAMP W/ CURVED LOWER JAW - "V" THREAD</b>					
4200	Eye w/strain relief sleeve, Smooth Jaw	5 / A	477 MCM 18 x 1 ACSR to #8 .83" - .12" (21 mm - 3 mm) Dia.	400 RMS Amps, 60 Hz	1.1 (.5)
21067	Eye w/o strain relief sleeve, Smooth Jaw	5 / A		400 RMS Amps, 60 Hz	1.0 (.4)
4260	Eye w/strain relief sleeve, Smooth Upper Jaw w/Curved Lower Serrated Jaw	5 / B		400 RMS Amps, 60 Hz	1.1 (.5)
21068	Eye w/o strain relief sleeve, Smooth Upper Jaw w/Curved Lower Serrated Jaw	5 / B		400 RMS Amps, 60 Hz	1.0 (.4)
2093	Hanger Stud only				.4 (.2)
<b>1.12" ALUMINUM "C" CLAMP - ACME THREAD</b>					
2531	Eye w/strain relief sleeve, Smooth Upper Jaw w/Flat Lower Jaw	5 / A	795 MCM 26 x 7 ACSR to #8 1.12" - .12" (29 mm - 3 mm) Dia.	400 RMS Amps, 60 Hz	1.1 (.5)
2532	Eye w/o strain relief sleeve Smooth Upper Jaw w/Flat Lower Jaw	5 / A		400 RMS Amps, 60 Hz	1.1 (.5)
2533*	Mounted w/ strain relief sleeve Smooth Upper Jaw w/Flat Lower Jaw	5 / A		400 RMS Amps, 60 Hz	4.2 (19)
4388	Eye w/strain relief sleeve, Smooth Upper Jaw w/Curved Lower Jaw	5 / B		400 RMS Amps, 60 Hz	1.5 (.7)
4389	Eye w/o strain relief sleeve, Smooth Upper Jaw w/Curved Lower Jaw	5 / B		400 RMS Amps, 60 Hz	1.1 (.5)
2537	Hanger Stud only			400 RMS Amps, 60 Hz	.2 (.1)

\*Mounted: 1.25" dia x 6' Fiberglass Hotstick permanently mounted



# "C" TYPE GROUNDING CLAMPS

## 1.12" SIZES



9985



4187



9993



4242



2537

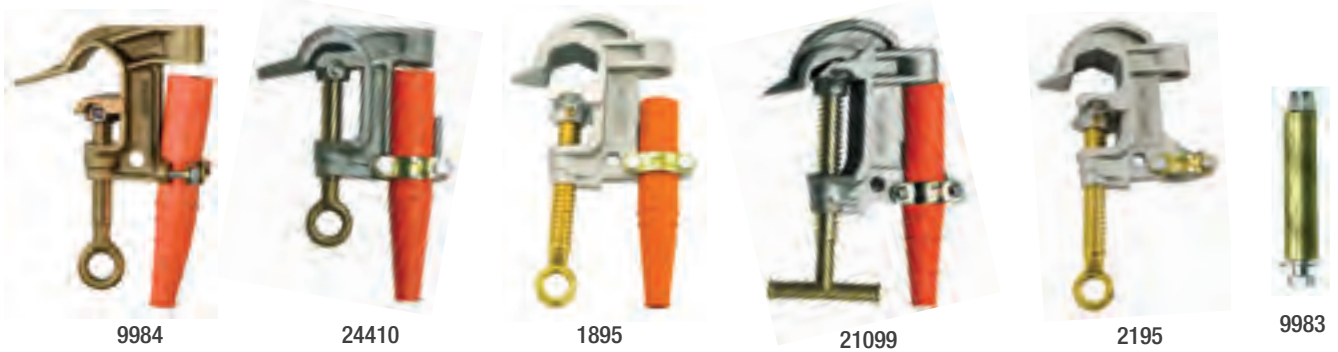
CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
<b>1.12" BRONZE "C" CLAMP - ACME THREAD</b>					
9985	Eye, w/ strain relief sleeve, Smooth Jaw	5 / A	795 MCM 26" x 7" ACSR to #8 1.12" - .12" (29 mm - 3 mm) Dia.	400 RMS Amps, 60 Hz	1.9 (.9)
2937	Eye, w/o strain relief sleeve, Smooth Jaw	5 / A		400 RMS Amps, 60 Hz	1.8 (.8)
4280*	Mounted, w/ strain relief sleeve, Smooth Jaw	5 / A		400 RMS Amps, 60 Hz	4.9 (2.2)
4187	Eye, w/ strain relief sleeve, Serrated Jaw	5 / B		400 RMS Amps, 60 Hz	1.9 (.9)
2537*	Aluminum Hanger Stud only				.4 (.2)
<b>1.12" "T" / EYE "C" CLAMP - ACME THREAD</b>					
4242	Bronze "T" w/ strain sleeve & "T", eye screw, Smooth Jaw	5 / A	795 MCM 26" x 7" ACSR to #6 1.12" - .16" (29 mm - 4 mm) Dia.	400 RMS Amps, 60 Hz	1.9 (.9)
9993	Aluminum "T" w/ strain sleeve & "T", eye screw, Smooth Jaw	5 / A		400 RMS Amps, 60 Hz	1.9 (.9)

\* Mounted: 1.25" dia x 6' Fiberglass Hotstick permanently mounted

† Hanger Stud 2537 compatible with above clamp parts on this page only.

# "C" TYPE GROUNDING CLAMPS

1.25" AND 1.5" SIZES



CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
<b>1.25" BRONZE "C" CLAMP - ACME THREAD</b>					
9984	Eye, w/ strain relief sleeve Smooth Jaw w/ Flat Lower Jaw	5 / A	1035.5 MCM ACSR to #6  1.25" - .16" (32 mm - 4mm) Dia.	400 RMS Amps, 60 Hz	2.2 (1.0)
1897	Eye, w/o strain relief sleeve Smooth Jaw w/ Flat Lower Jaw	5 / A		400 RMS Amps, 60 Hz	2.1 (.9)
4255	Eye, w/ strain relief sleeve Smooth Jaw w/ Curved Lower Jaw	5 / A		400 RMS Amps, 60 Hz	2.2 (1.0)
21069	Eye, w/o strain relief sleeve Smooth Jaw w/ Flat Lower Jaw	5 / A		400 RMS Amps, 60 Hz	2.1 (.9)
4279	Eye, w/ strain relief sleeve Serrated Jaw w/ Curved Lower Jaw	5 / B		400 RMS Amps, 60 Hz	2.2 (1.0)
21070	Eye, w/o strain relief sleeve Serrated Jaw w/ Flat Lower Jaw	5 / B		400 RMS Amps, 60 Hz	2.1 (.9)
9983*	Brass Hanger Stud only				.4 (.2)
<b>1.25" ALUMINUM "C" CLAMP - ACME THREAD</b>					
24410	Eye, w/ strain relief sleeve Smooth Jaw w/ Flat Lower Jaw	5 / A	1035.5 MCM ACSR to #6 1.25" - .16" (32 mm - 4mm) Dia.		2.2 (1.0)
<b>1.5" ALUMINUM "C" CLAMP, W/ FLAT LOWER JAW - ACME THREAD</b>					
1895	Eye, w/ strain relief sleeve, Serrated Jaw	5 / B	1431 MCM ACSR to #6  1.5" - .16" (38 mm - 4mm) Dia.	400 RMS Amps, 60 Hz	1.7 (.8)
2195	Eye, w/o strain relief sleeve, Serrated Jaw	5 / B		400 RMS Amps, 60 Hz	1.5 (.7)
1896*	Mounted, w/ strain relief sleeve, Serrated Jaw	5 / B		400 RMS Amps, 60 Hz	4.8 (2.1)
21099	"T", w/ strain relief sleeve, Serrated Jaw	5 / B		400 RMS Amps, 60 Hz	1.7 (.8)
1928	Hanger Stud only				.2 (.1)

\* Mounted: 1.25" dia x 6' Fiberglass Hotstick permanently mounted

\* Hanger Stud 9983 compatible with above clamps parts on this page only.

# "C" TYPE GROUNDING CLAMPS

## 2" AND 2.4" SIZES



1924 - Stick Mounted "C" Type Clamp

CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
<b>2" ALUMINUM "C" CLAMP W/ CURVED LOWER JAW - ACME THREAD</b>					
21074	Eye, w/ strain relief sleeve, Smooth Jaw	5H / A	3000 MCM ACSR to #6  2"-.16" (51 mm - 4 mm )Dia.	400 RMS Amps, 60 Hz	2.1 (1.0)
21075	Eye, w/o strain relief sleeve, Smooth Jaw	5H / A		400 RMS Amps, 60 Hz	2 (.9)
20882	Eye, w/ strain relief sleeve, Serrated Jaw	5H / B		400 RMS Amps, 60 Hz	2.1 (1.0)
21077	Eye, w/o strain relief sleeve, Serrated Jaw	5H / B		400 RMS Amps, 60 Hz	2 (.9)
<b>2.4" ALUMINUM "C" CLAMP W/ FLAT LOWER JAW - ACME THREAD</b>					
1923	Eye, w/ strain relief sleeve, Smooth Jaw	5 / A	2.0" I.P.S. to #6  2.4" - .16" (61 mm - 4 mm) Dia.	400 RMS Amps, 60 Hz	2.1 (1.0)
4377	Oval Eye, w/ strain relief sleeve, Smooth Jaw	5 / A		400 RMS Amps, 60 Hz	2.1 (1.0)
4240	Eye, w/o strain relief sleeve, Smooth Jaw	5 / A		400 RMS Amps, 60 Hz	2.0 (1.0)
1924*	Mounted, w/ strain relief sleeve Smooth Jaw	5 / A		400 RMS Amps, 60 Hz	5.1 (2.3)
1921	Eye, w/ strain relief sleeve, Serrated Jaw	5 / B		400 RMS Amps, 60 Hz	2.2 (1.0)
4390	Oval Eye, w/ strain relief sleeve, Serrated Jaw	5 / B		400 RMS Amps, 60 Hz	2.2 (1.0)
1922*	Mounted, w/ strain relief sleeve Serrated Jaw	5 / B	400 RMS Amps, 60 Hz	5.2 (2.3)	
1928*	Hanger Stud only				.2 (.1)
<b>2.4" BRONZE "C" CLAMP W/ FLAT LOWER JAW - ACME THREAD</b>					
4295	Eye, w/ strain relief sleeve, Smooth Jaw	5H / A	2.0" I.P.S. to #6	400 RMS Amps, 60 Hz	4.1 (1.8)
4311	Eye, w/o strain relief sleeve, Smooth Jaw	5H / A	2.4" - .16" (61 mm - 4 mm) Dia.	400 RMS Amps, 60 Hz	4.0 (1.7)

\* Mounted: 1.25" dia x 6' Fiberglass Hotstick permanently mounted

\* Hanger Stud 1928 Compatible with above clamps parts on this page only.

## PRESSURE TERMINAL CLAMPS

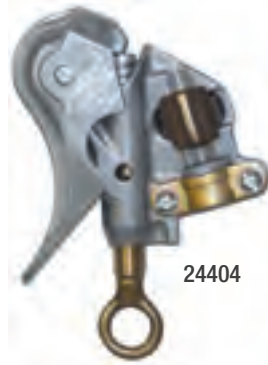
1.1", 1.25" AND 2" SIZES



24407 - Stick Mounted Duck Bill Clamp



24466



24404



24405



24406

These **DUCKBILL** and **"C" CLAMPS** feature pressure terminations for use with plain ferrules. Made of high strength aluminum with bronze eye-screws, these Grade 5 clamps are designed for smooth operation and long service life. Use Duckbill clamps for all grounding applications from .16 to 1.1" diameter and "C" clamps for all grounding applications from .06 to 1.26" diameter.

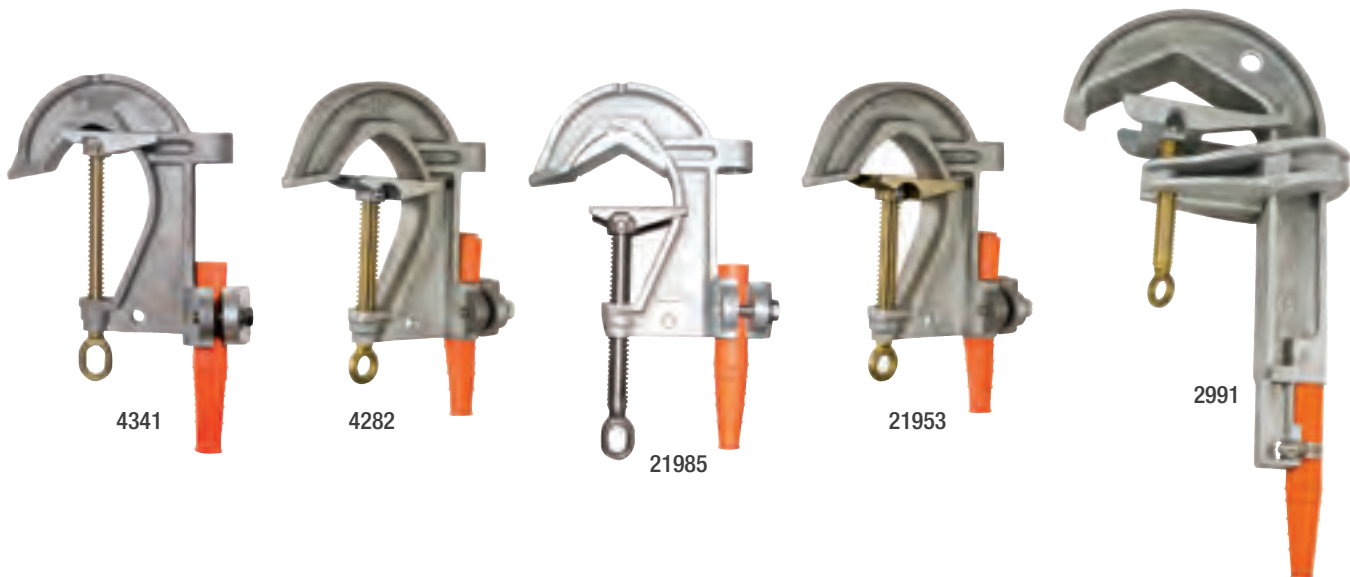
**FLAT JAW GROUNDING CLAMPS** are now available with pressure terminals for use with plain cable ferrules. These clamps are made of a high strength aluminum and a bronze eye screw or "T" handle for durability and smooth operation. Also featured is a hardened aluminum alloy serrated insert. This insert is designed to grip tightly to flat surfaces and cut through surface contamination and oxidation for low resistance contact. The pressure termination is designed on an angle keeping the cable out of the way during installation. The cable termination is angled to minimize interface with the "T" handle or eye when installing or removing the clamp.

Salisbury's 24438 Plain Ferrule 4-way Connector is available on page I-20.

CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
<b>1.1" SMOOTH JAW ALUMINUM --SPRING LOADED - "V" THREAD</b>					
24404	Duckbill, Eye w/o strain relief sleeve, Smooth Jaw	5 / A	795 MCM ACSR to #6 1.1"-.16" (28 mm - 4 mm )Dia.	400 RMS Amps, 60 Hz	1.5 (.68)
24407	Stick mounted duckbill clamp	5 / A		400 RMS Amps, 60 Hz	4.5 (2.05)
<b>1.25" SMOOTH JAW ALUMINUM - ACME THREAD</b>					
24466	"C" Type, Eye w/o strain relief sleeve, Serrated Jaw	5 / B	1035.5 MCM ACSR to #6 1.25"-.16" (32 mm - 4 mm )Dia.	400 RMS Amps, 60 Hz	2.2 (1.0)
21754	Hanger Stud only				0.3 (0.1)
<b>2" SMOOTH JAW ALUMINUM - ACME THREAD</b>					
21942	"C" Type, Eye w/o strain relief sleeve Serrated Jaw	5 / B	1035.5 MCM ACSR to #6 2"-.16" (32 mm - 4 mm )Dia.	400 RMS Amps, 60 Hz	2.2 (1.0)
<b>ALUMINUM FLAT JAW GROUNDING CLAMP - ACME THREAD</b>					
24405	"T" screw, w/o strain relief sleeve, Serrated Jaw	5 / B	1.5" -.06" Flat or Square 1.26"-.06" (32 mm - 1.5 mm )Dia.	400 RMS Amps, 60 Hz	2.1 (.9)
24406	Eye screw, w/o strain relief sleeve Serrated Jaw	5 / B		400 RMS Amps, 60 Hz	2.0 (.9)

# GROUNDING CLAMPS FOR SUBSTATION BUSES

## 3.5" AND 6.62" SIZES



CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
<b>3.5" ALUMINUM "C" CLAMP FOR SUBSTATION BUSES - ACME THREAD</b>					
4282	Eye, w/ strain relief sleeve, Smooth Jaw w/ Flat Lower Jaw	5 / A	3" - 1.5" I.P.S.	400 RMS Amps, 60 Hz	2.8 (1.3)
4283*	Mounted, w/ strain relief sleeve Smooth Jaw w/ Flat Lower Jaw	5 / A	3.5" - 1.75"	400 RMS Amps, 60 Hz	5.8 (2.5)
21953	Eye, w/ strain relief sleeve Smooth Jaw w/ Flat Lower Jaw	5H / A	(89 mm - 44 mm) Dia.	400 RMS Amps, 60 Hz	2.9 (1.4)
4341	Long Eye Screw, w/strain relief sleeve Smooth Upper Jaw w/ Flat Lower Serrated Jaw	5 / A	3" I.P.S. to #6 3.5" - .16"	400 RMS Amps, 60 Hz	2.9 (1.4)
21985*	Long Eye Screw, w/strain relief sleeve Serrated Jaw, w/ Flat Lower Jaw	6 / B	(89 mm - 4 mm) Dia.	450 RMS Amps, 60 Hz	3.0 (1.5)
<b>6.62" ADJUSTABLE ALUMINUM "C" CLAMP FOR ROUND, SQUARE, RECTANGLE OR "H" SECTION SUBSTATION BUSES - ACME THREAD</b>					
2991	Eye, w/ strain relief sleeve Smooth Jaw w/ Flat Lower Jaw	5H / A		400 RMS Amps, 60 Hz	6.9 (3.1)
2993**	Eye, w/ welded single contact stud, Smooth Jaw w/ Flat Lower Jaw	5 / A	6.12" I.P.S.	400 RMS Amps, 60 Hz	7.0 (3.2)
9967**	Eye, w/ welded double contact stud Smooth Jaw w/ Flat Lower Jaw	5 / A	6.62" - .4"	450 RMS Amps, 60 Hz	7.3 (3.3)
4378	Oval Eye, w/ strain relief sleeve Smooth Jaw w/ Flat Lower Jaw	5 / A	(168 mm - 40 mm) Dia.	400 RMS Amps, 60 Hz	6.9 (3.1)

\*Mounted: 1.25" dia x 6' Fiberglass Hotstick permanently mounted

\*\*No Ferrule Connection

+Accepts 3/4 - 10 ferrule threads

## GROUNDING CLAMPS FOR FLATS, ANGLES & ROUNDS



1814



1815



24442



4345



4369



24441

**FLAT JAW GROUNDING CLAMPS** are available with either a large “T” handle or with an eye for clampstick application. The handles and eyes are designed so that the cable will not interfere with the torquing of the clamp. The set screw that secures the clamp to a flat surface is located on the movable jaw on all designs. When tightened, the set screw forces the fixed jaw of the clamp firmly against the flat ensuring a consistent low resistance current path directly through the body of the clamp to the cable connection. With other designs having a set screw on the fixed jaw, current is required to flow through mechanical connections between the movable jaw, the eye screw and the body of the clamp before passing to the cable connection.

CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (Kgs)
<b>GRADE 3 BRONZE FLAT JAW GROUNDING CLAMPS - “V” THREAD</b>					
<b>1814</b>	“T” screw w/ strain relief sleeve Serrated Jaw	3 / B	1.5” - .06” Flat or Square 1.26” - .06” (32 mm - 1.5 mm )Dia.	300 RMS Amps, 60 Hz	1.7 (.8)
<b>1815</b>	Eye Screw w/ strain relief sleeve Serrated Jaw	3 / B		300 RMS Amps, 60 Hz	1.6 (.7)
<b>GRADE 5 ALUMINUM FLAT JAW GROUNDING CLAMP - ACME THREAD</b>					
<b>4345</b>	“T” screw w/ strain relief sleeve, Serrated Jaw	5 / B	1.5” - .06”  Flat or Square	400 RMS Amps, 60 Hz	2.1 (.9)
<b>24442</b>	“T” screw w/ strain relief sleeve Serrated Jaw	5 / B		400 RMS Amps, 60 Hz	2.1 (.9)
<b>4369</b>	Eye Screw w/ strain relief sleeve Serrated Jaw	5 / B	1.26” - .06”	400 RMS Amps, 60 Hz	2.0 (.9)
<b>24441</b>	Eye Screw w/ strain relief sleeve Serrated Jaw	5 / B	(32 mm - 1.5 mm )Dia.	400 RMS Amps, 60 Hz	2.0 (.9)

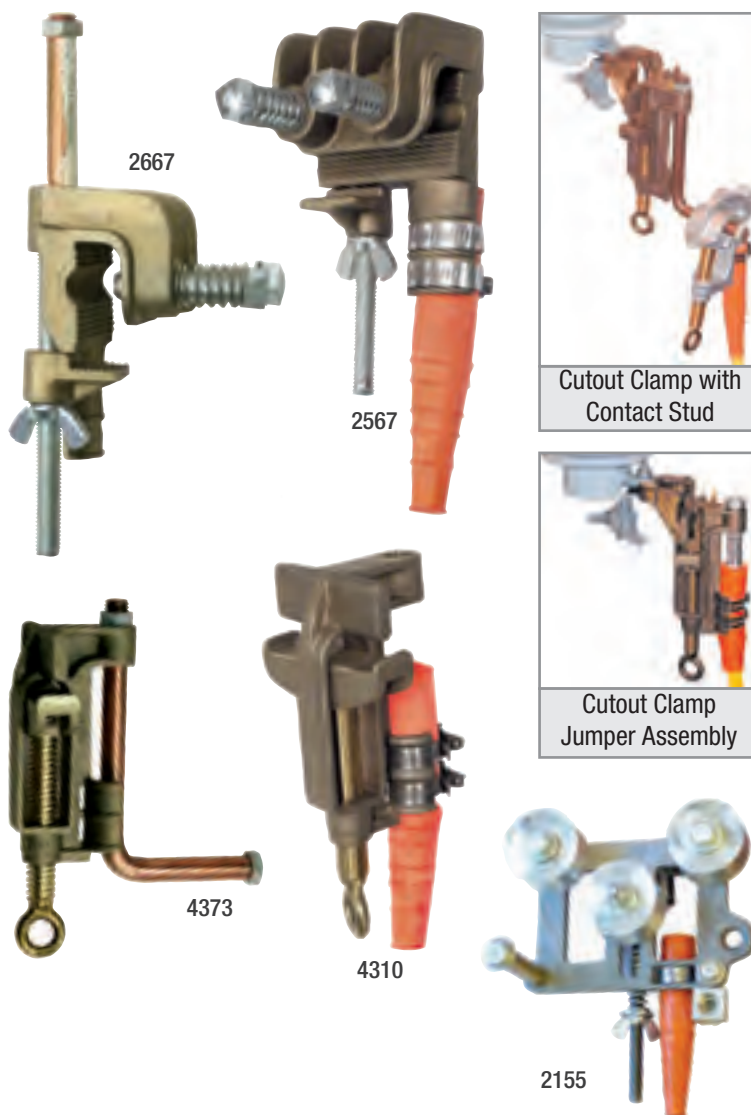
\*Mounted: 1.25” dia x 6’ Fiberglass Hotstick permanently mounted

# HEAVY DUTY DUAL-PURPOSE CLAMPS & SPECIALTY CLAMPS

The **HEAVY DUTY BRONZE “C” TYPE FLAT JAW CLAMP** with anti-blow off keeper is made to fit structural angles, flats and copper or copperweld stranded grounding assemblies. To install, first use an abrasive cloth or wire brush to clean the surface to be clamped. Then, wipe the surface clean, position the clamp, finger tighten and set the screws. Use a wrench to secure and tighten. A 2667 clamp with contact stud offers greater versatility.

**CUTOUT CLAMPS** are applied with a clampstick into the bottom hinge contact of a cutout. This clamp can be used as part of a ground assembly or by using a contact stud using a standard grounding assembly with “C” clamps from the stud to ground.

Lightweight, heavy duty **STRINGING GROUND** installs anywhere along the length of conductor to provide a continuous grounding bond, even if the conductor is slack. Constructed of high-strength aluminum alloy with large diameter sheaves and bronze bushing bearings. Features a side opening for quick, easy installation. Adjustable compression spring assures proper contact for different sizes of conductors and for easy passage of splices. In tests, this clamp withstood a 25 kA, 28 cycle short circuit. The three options for a ground tap connection are: termination for ground cables, contact/hanger stud and connector for ground wire.



CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	TAP SIZE	WEIGHT EA. lbs. (kgs)
<b>HEAVY DUTY BRONZE “C” TYPE FLAT JAW CLAMP</b>					
2567	5/8”-11NC Connection, w/ strain relief sleeve Serrated Jaw	5H / B	Angles & Flats: 2.5”-4” WX (64-101 mm x 3-19 mm)	5/8 - 11 UNC Max. Cable Size 4/0 Type V Compression Ferrules	4 (1.8)
2667	2567 Clamp, w/ Contact Stud Serrated Jaw	5 / B		3/4 - 10 UNC Max. Cable Size 250 MCM Type V Compression Ferrules	5 (2.3)
2577	3/4”-10NC Connection, w/ strain relief sleeve Serrated Jaw	6 / B	Rounds: .25”-.75” (6 mm-19 mm) Dia.		4 (1.8)

<b>BRONZE CUTOUT CLAMPS - “V” THREAD</b>			TAP SIZE	CONTINUOUS CURRENT RATING	
4310	Eye, w/ ferrule connection	Grade 5	5/8 - 11 UNC	400 RMS Amps, 60 Hz	2.1 (1.1)
4373	Eye, w/ contact stud	Grade 5	Max. Cable Size: 470 Type VI Threaded Stud	400 RMS Amps, 60 Hz	3.3 (1.5)
4379	Contact stud only	Grade 5	Compression Ferrule	400 RMS Amps, 60 Hz	1.2 (.5)

<b>STRINGING GROUND</b>			MAIN LINE RANGE	CONTINUOUS CURRENT RATING	
2155	Stringing ground, w/ Alloy Rollers & Smooth Contacts	5 / A	1033.5 MCM ACSR to #2 Sol 1.26”-.25” (32 mm - 6 mm) Dia Splice: 1.5” (38 mm) Dia	300 RMS Amps, 60 Hz	5.3 (2.4)



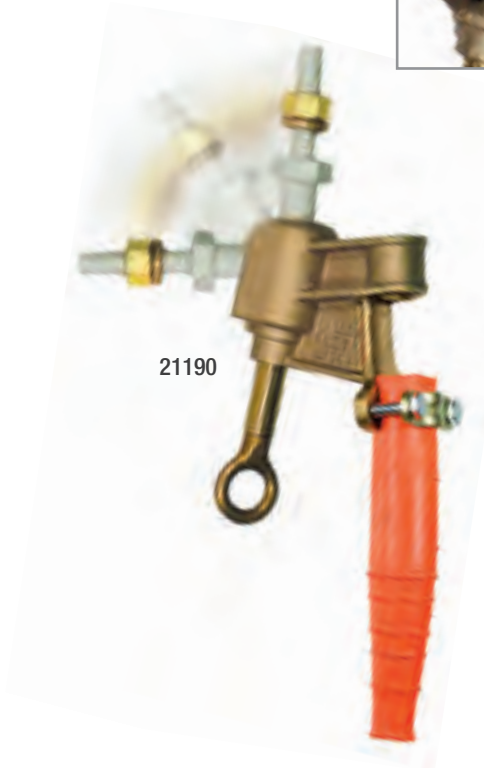
The **BALL AND SOCKET GROUNDING SYSTEM** allows for variable angle accessibility. This system is compact and lightweight. There are fixed grounding points on the socket clamp. The 21190 Socket Clamp, made from bronze alloy, has a socket size of 1 inch (25.4 mm) and a threaded bore boss of 5/8"-11 UNC. The socket clamp has an integral cable support with strain relief sleeve.

**THE BALL STUD "C" CLAMP** is a universal clamp that can be used in substations and on overhead lines. This universal clamp can be used as a socket clamp on a 1 inch (25.4 mm) Ball Stud and as a 1 1/2 inch (38 mm) C-Clamp on overhead lines. The eye screw is not extended beyond the body of the clamp, minimizing possible thread damage during handling. Double lead V-thread allows for faster installation, minimizing worker fatigue. External and internal ball studs assembly can be used as a current carrying contact stud.

### SPECIFICATIONS FOR BALL STUD "C" CLAMP

- Aluminum clamp body
- Double lead V-thread eye screw is bronze alloy
- ASTM Type 1, Class A, Grade 5 rating
- Fault current ratings:
  - 43,000 Amps – 15 cycles
  - 30,000 Amps – 30 cycles
- Ferrule attachment: 5/8" x 11 UNC for Grade 5 rating
- Grounding cable: #2 min size to 4/0 max size

See page K-3 for ball socket studs and accessories available for both Ball & Socket clamps and Ball Stud "C" Clamps.



CAT. NO.	DESCRIPTION	ASTM GRADE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
21190	w/ strain relief sleeve	5	400 Amps	1.2 (.54)
21277	w/o strain relief sleeve	5	400 Amps	1.1 (.5)
22675	1" Ball Stud C-Clamp w/ strain relief	5H	400 Amps	2.7 (1.22)
22704	1" Ball Stud C-Clamp w/o strain relief	5H	400 Amps	2.6 (1.18)



# GROUNDING CABLES

**SALISBURY GROUNDING CABLES** are made with extra flexible strand of soft drawn #30 AWG (.01") copper and are available in three different jackets.

*Salisbury yellow and black ground cable now include permanent embossed markings.*

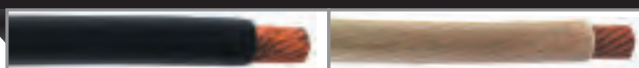
The yellow thermoplastic elastomer jacketed cable is the standard for grounding service. It provides a combination of economy, flexibility and durability. The service temperature ranges from 200° to -50°F. ASTM F 855 Type I.

The black thermoplastic elastomer jacketed cable has a smaller diameter and thinner jacket material giving it better flexibility than the yellow cable. The service temperature ranges from 200° to -50°F. ASTM F 855 Type I.

The PVC transparent flexible thermoplastic jacketed cable allows easy inspection for strand breakage. The flexibility decreases with low temperatures. The service temperature ranges from 140° to -40°F per ASTM F 855, Type III requirements.



**ALSO AVAILABLE IN BLACK AND CLEAR PVC**



## SALISBURY GROUNDING CABLES

CAT NO.	SIZE	STRAND DIA. in. (mm)	JACKET in. (mm)	SHORT CIRCUIT WITHSTAND AMPS, RMS, 60HZ		CONTINUOUS CURRENT AMPS,RMS, 60HZ	WT./1000FT. lbs. (kgs)
				15 CYCLES	30 CYCLES		
<b>YELLOW JACKET</b>							
<b>2136</b>	#2-665W	.35 (8.9)	.50 (12.7)	14500	10000	200	282 (127)
<b>2137</b>	1/0-1064W	.45 (11.4)	.62 (15.7)	21000	15000	250	488 (221)
<b>2138</b>	2/0-1330W	.49 (12.4)	.65 (16.5)	27000	20000	300	537 (243)
<b>2139</b>	4/0-2109W	.62 (1.7)	.83 (21.1)	43000	30000	400	836 (379)
<b>BLACK JACKET</b>							
<b>2636</b>	#2-665W	.35 (8.9)	.47 (12)	14500	10000	200	263 (119)
<b>2637</b>	1/0-1064W	.45 (11.4)	.58 (14.7)	21000	15000	250	404 (183)
<b>2638</b>	2/0-1330W	.49 (12.4)	.63 (16)	27000	20000	300	497 (225)
<b>2649</b>	3/0-1672W	.55 (14)	.72 (18.3)	36000	25000	350	680 (308)
<b>2639</b>	4/0-2109W	.62 (1.7)	.78 (19.8)	43000	30000	400	770 (349)
<b>CLEAR PVC JACKET</b>							
<b>2128</b>	#2-665W	.35 (8.9)	.53 (13.5)	14500	10000	200	289 (131)
<b>2129</b>	1/0-1064W	.45 (11.4)	.64 (16.3)	21000	15000	250	520 (235)
<b>2133</b>	2/0-1330W	.49 (12.4)	.70 (17.8)	27000	20000	300	546 (247)
<b>2288</b>	4/0-2109W	.62 (1.7)	.84 (21.3)	43000	30000	400	841 (381)

YELLOW

BLACK

CLEAR PVC

# PLAIN SHROUDED & UNSHROUDED FERRULES



ALUMINUM PLAIN SHROUDED



COPPER PLAIN SHROUDED



ALUMINUM PLAIN UNSHROUDED



COPPER PLAIN UNSHROUDED

## PLAIN SHROUDED & UNSHROUDED FERRULES

Plain ferrules are designed for use with all grounding clamps that feature pressure terminals including the 1" duckbill and 1.5" flat jaw clamp.

**COPPER FERRULES** are available in two different styles: unshrouded and shrouded. Shrouded ferrules are compressed on both the conductor and the jacket of the cable to reduce bending stress. Unshrouded ferrules are crimped on the conductor strands only. These ferrules are manufactured of tin plated, 99.5% pure copper.

**ALUMINUM FERRULES** are available in two different styles: unshrouded and shrouded. Shrouded ferrules are compressed on both the conductor and the jacket of the cable to reduce bending stress. Unshrouded ferrules are crimped on the conductor strands only.

CAT. NO.	CABLE SIZE	STRAND DIE CODES T&B	JACKET DIE CODES T&B	BURNDY DIE NUMBER	WEIGHT EA. PAIR lbs. (kgs)
<b>COPPER SHROUDED</b>					
24424	#2	50	71	-	0.30 (.14)
24425	1/0	50	71	-	0.35 (.16)
24426	2/0	60	76	-	0.40 (.18)
24427	4/0	66	106	-	0.45 (.20)
<b>COPPER UNSHROUDED</b>					
24420	#2	50	-	-	0.30 (.14)
24421	1/0	50	-	U243	0.30 (.14)
24422	2/0	60	-	U245	0.35 (.16)
24423	4/0	66	-	U247	0.35 (.16)
<b>ALUMINUM SHROUDED</b>					
24434	#2	50	71	-	0.1 (.045)
24436	2/0	60	76	-	0.15 (.07)
24437	4/0	71	106	-	0.15 (.07)
<b>ALUMINUM UNSHROUDED</b>					
24430	#2	50	-	-	0.12 (.54)
24431	1/0	50	-	-	0.12 (.54)
24432	2/0	60	-	-	0.16 (.073)
24433	4/0	71	-	-	0.16 (.073)

\*Add suffix "A" to the end of the catalog number when requesting a custom built grounding set.

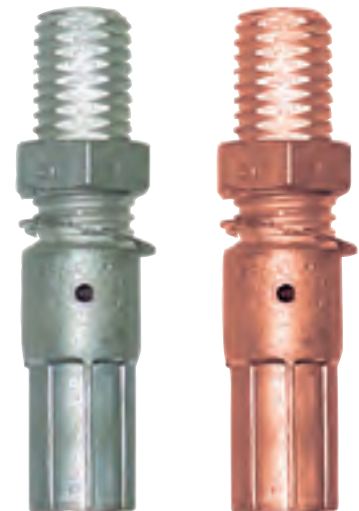
# THREADED GROUNDING FERRULES & STRAIN RELIEF SLEEVES

Salisbury compression **THREADED GROUNDING FERRULES** provide low resistant connection to cable strands with a threaded stud that securely screws into a clamp. Nut and lock washers increase contact pressure and secure the assembly.

Tin plated copper ferrules can be used on either bronze or aluminum body clamps. All Salisbury threaded grounding ferrules are unshrouded and manufactured with a 5/8-11 UNC threaded stud and meets the requirements of ASTM F855.

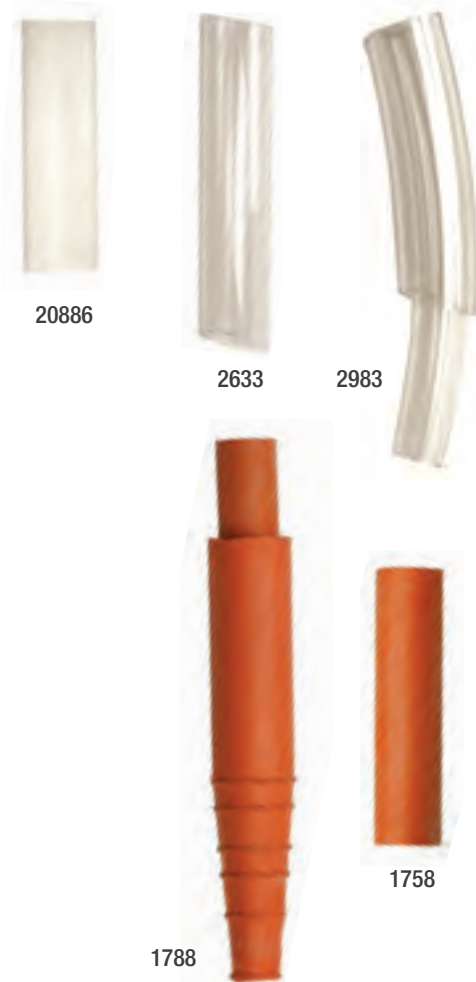
CAT. NO.	ASTM GRADE	SIZE	INSTALLING DIE CODES T&B	BURNDY DIE NUMBERS	WEIGHT EA. PAIR lbs. (kgs)
<b>ALUMINUM THREADED GROUNDING FERRULES</b>					
2026	1	#2	50	-	.2 (.1)
2027	2	1/0	50	-	.2 (.1)
2620	3	2/0	60	-	.3 (.1)
2640	5	4/0	71	-	.3 (.1)
<b>COPPER THREADED GROUNDING FERRULES</b>					
2022	1	#2	50	U243	.5 (.2)
2023	2	1/0	50	U243	.4 (.2)
2024	3	2/0	60	U245	.4 (.2)
4277	4	3/0	66	-t	.6 (.3)
2025	5H	4/0	66	U247	.6 (.3)

Add suffix "A" to the catalog number when requesting a custom insulated grounding set.



**STRAIN RELIEF SLEEVES** reinforce cables at the termination points when used with the cable support system. This decreases strand damage to cables from age or mishandling which reduces current carrying capacity and service life. SALCOR® Strain Relief Sleeves accept all grounding cables #2 through 4/0. Sleeve assembly consists of two parts: the inner sleeve, which is discarded if the cable diameter exceeds .72" and tapered outer sleeve, 6.5" long, which can be cut to match the diameters. Clear strain relief sleeves and heat shrink are available to fit ground clamps.

CAT. NO.	DESCRIPTION	WEIGHT EA. lbs. (kgs)
<b>CABLE STRAIN RELIEF SLEEVES</b>		
1758	Inner SALCOR® Sleeve Only	.1 (.04)
1788	Complete SALCOR® Strain Relief Assembly	.1 (.04)
2633	Clear Sleeve for 4/0 Grounding Cable	.1 (.04)
2983	Clear Sleeve for #2 to 2/0 Grounding Cable	.1 (.04)
20886	Clear Heat Shrink, 5"(127 mm) for All Grounding Cables	.1 (.04)

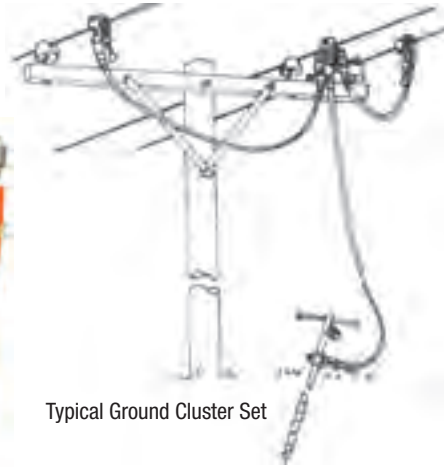


# SINGLE GROUNDING ASSEMBLIES

## SINGLE GROUNDING ASSEMBLIES & SETS



24309



Typical Ground Cluster Set

Salisbury offers a variety of single grounding versatility to the user when performing temporary grounding.

For ordering convenience, completed **SINGLE GROUNDING ASSEMBLIES** are listed which cover many standard application needs. Modification to these sets to meet specific needs can be made. Contact your local Salisbury representative for assistance or visit [www.salisburybyhoneywell.com](http://www.salisburybyhoneywell.com) to use our helpful online grounding configurator.

CAT. NO.	DESCRIPTION	ASTM GRADE	WEIGHT EA. lbs. (kgs)
<b>SINGLE GROUNDING ASSEMBLIES</b>			
24309	2 ea. #1895 Serrated Aluminum "C" Clamp 1.5" 1 pr. #2024 Ferrules 6 ft. #2138 2/0 Cu. Yellow Cable	3	5.9 (2.7)
2299	2 ea. #1895 Serrated Aluminum "C" Clamp 1.5" 1 ea. #1928 Hanger Stud, 1 pr. #2027 Ferrules 6 ft. #2137 1/0 Cu. Yellow Cable	2	5.9 (2.7)
2319	2 ea. #1923 Smooth Aluminum "C" Clamp 2.4" 1 ea. #1928 Hanger Stud, 1 pr. #2620 Ferrules 10 ft. #2138 2/0 Cu. Yellow Cable	3	8.7 (3.9)
2320	1 ea. #1923 Smooth Aluminum "C" Clamp 1 ea. #4345 Aluminum Flat Jaw "T" Handle Clamp 1 pr. #2620 Ferrules 15 ft. #2138 2/0 Cu. Yellow Cable	3	7.4 (3.4)
2321	2 ea. #1793 Bronze Duck Bill 556 MCM 1 ea. #2093 Hanger Stud, 1 pr. #2023 Ferrules 6 ft. #2137 1/0 Cu. Yellow Cable	2	5.4 (2.5)
2329	2 ea. #1921 Serrated Aluminum "C" Clamp 2.4" 1 ea. #1928 Hanger Stud, 1 pr. #2620 Ferrules 10 ft. #2138 2/0 Cu. Yellow Cable	3	9 (4.1)
2556	2 ea. #1853 Smooth Aluminum Duck Bill Clamp 1.66" 1 ea. #1858 Hanger Stud, 1 pr. #2027 Ferrules 6 ft. #2137 1/0 Cu. Yellow Cable	2	5.2 (2.4)
2876	2 ea. #2531 Smooth Aluminum "C" Clamp 1.0" 1 ea. #2537 Hanger Stud, 1 pr. #2027 Ferrules 6 ft. #2137 1/0 Cu. Yellow Cable	2	4.9 (2.2)
9975	2 ea. #9985 Smooth Bronze "C" Clamp 1.0" 1 ea. #9983 Hanger Stud, 1 pr. #2023 Ferrules 6 ft. #2137 1/0 Cu. Yellow Cable	2	6.9 (3.1)
9982	2 ea. #9984 Smooth Bronze "C" Clamp 1.25" 1 ea. #9983 Hanger Stud, 1 pr. #2023 Ferrules 6 ft. #2137 1/0 Cu. Yellow Cable	2	8.3 (3.7)

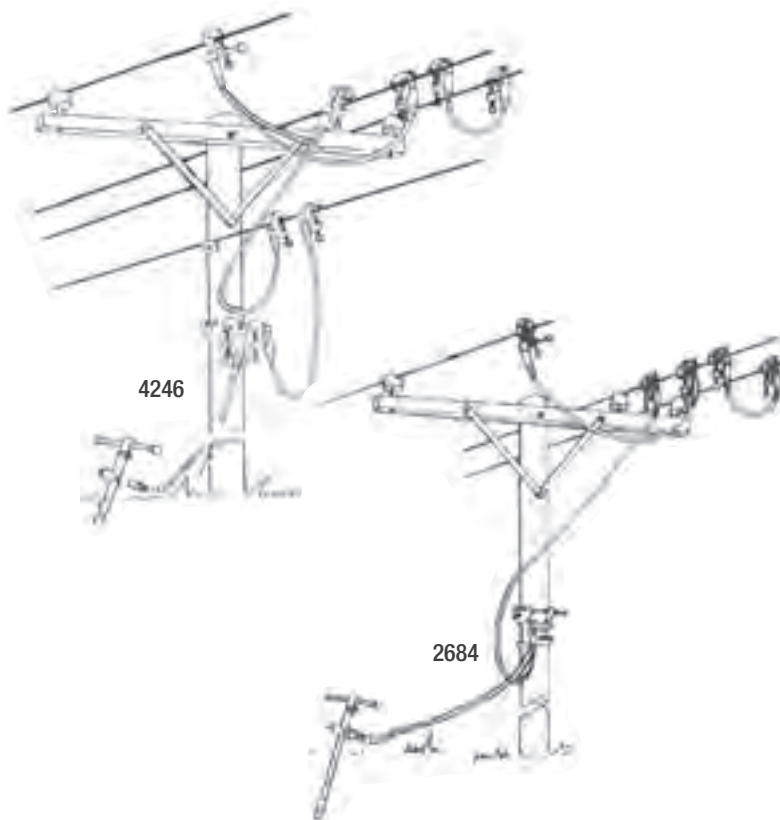
Optional ground set label available upon request when ordering.

# GROUNDING SETS

## SINGLE POINT DISTRIBUTION GROUNDING SETS & SPECIAL APPLICATION SETS

A **SINGLE POINT DISTRIBUTION GROUNDING SET** creates an equal potential zone on the working structure. This is accomplished by bonding all conductors and the structure to a ground source using individual assemblies as shown in the adjacent drawing.

The **SPECIAL APPLICATIONS GROUNDING SETS** listed are some typical complete personal protection ground sets for common line construction. These sets, although practical for many applications, are shown as a guide to help determine individual system needs and for ease of ordering. Variations of these sets may be requested to meet specific situations or user preferences. Your local Salisbury representative can answer any questions you have on personal protection grounding needs and applications.



CAT. NO.	DESCRIPTION	ASTM GRADE	WEIGHT EA. lbs. (kgs)
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### SINGLE POINT GROUNDING ASSEMBLIES

<b>4246</b>	Complete Distribution Grounding Set 10 ea. #2531 Smooth Aluminum "C" Clamps 795 MCM 1 ea. #9998 Aluminum Pole Mount Contact Bar 5 pr. #2026 Ferrules 3 ea. #2537 Hanger studs 60 ft. #2636 # Cu. Cable 1 ea. #2103 Screw Ground Rod w/ Connector	1	45.5 (20.6)
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**Additional Single Point Sets are Available, Contact your local Salisbury representative.**

Optional ground set label available upon request when ordering.

### SPECIAL APPLICATIONS GROUNDING SETS

#### COMPLETE 3 PHASE DELTA

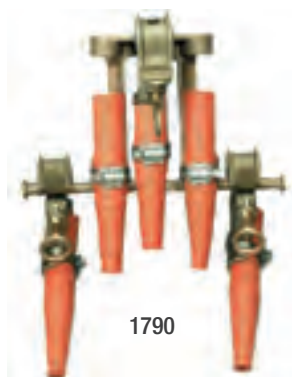
<b>2684</b>	2 ea. #20880 Contact Bar 7 ea. #1895 Serrated Aluminum "C" Clamp 1.5" 84 ft. #2637 1/0 Cu. Black Cable, 4 pr. #2027 Ferrules 2 ea. #1928 Hanger Studs, 1 ea. #2654 Storage Bag 1 ea. #2103 Screw Ground Rod	2	63.5 (28.8)
<b>4249</b>	2 ea. #20880 Contact Bar 7 ea. #2531 Smooth Aluminum "C" Clamp 795 MCM 86 ft. #2637 1/0 Cu. Cable, 4 pr. #2027 Ferrules 2 ea. #2537 Hanger Studs, 1 ea. #2654 Storage Bag 1 ea. #2103 Screw Ground Rod	2	63.5 (28.8)

#### COMPLETE 4 WIRE WYE

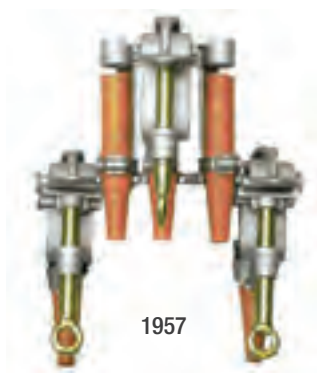
<b>4276</b>	1 ea. #20880A Contact Bar 7 ea. #2531 Smooth Aluminum "C" Clamp 795 MCM 32 ft. #2637 1/0 Cu. Cable, 4 pr. #2027 Ferrules 3 ea. #2537 Hanger Studs, 1 ea. #2654 Storage Bag	2	34 (15.4)
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Optional ground set label available upon request when ordering.

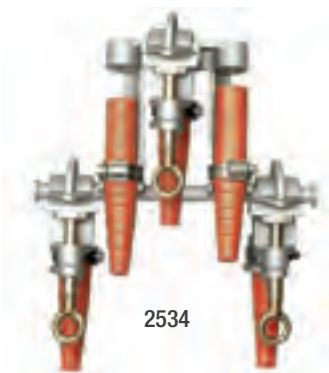
## 3 WIRE UNIVERSAL GROUNDING CLUSTERS & SETS



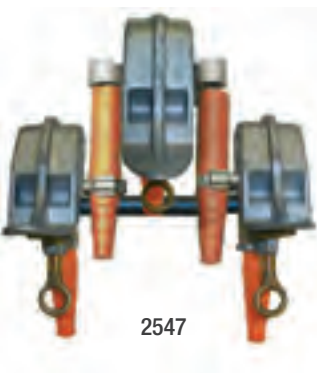
1790



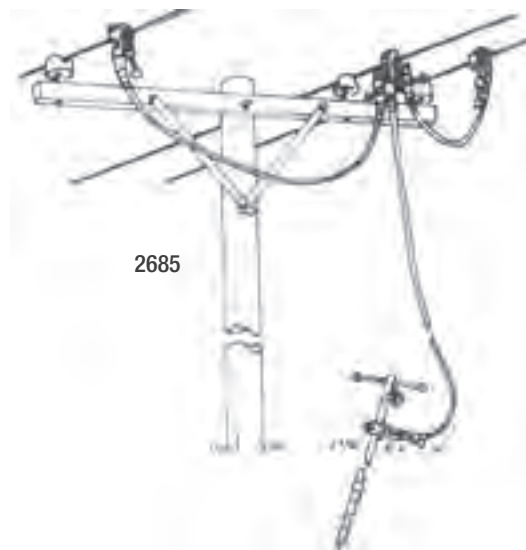
1957



2534



2547



2685

**GROUNDING CLUSTERS** are used to make it easy for a single line worker to apply multiple grounding assemblies on a three phase system. All clusters have an option of a ground lead by using the extra connection point on each cluster. Three wire clusters are recommended for three phase Delta systems. Complete grounding cluster assemblies are available from the factory. By specifying the cable size and length required, the assembly will be made to your specifications.

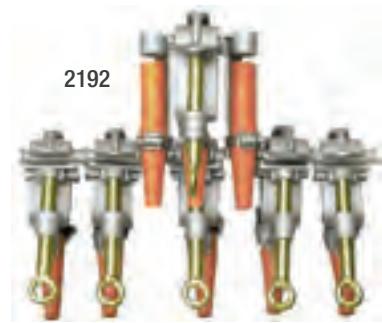
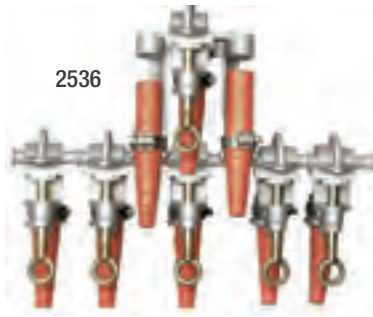
CAT. NO.	DESCRIPTION	ASTM GRADE	WEIGHT EA. lbs. (kgs)
1790	Cluster w/ 3 #1793 Smooth Jaw 556 MCM Bronze Duck Bill Clamps	4	6 (2.7)
1957	Cluster w/ 3 #1895 Serrated Jaw 1.5" Aluminum "C" Clamps	5	6.4 (2.9)
2534	Cluster w/ 3 #2531 Smooth Jaw 1" Aluminum "C" Clamps	5	4.9 (2.2)
2547	Cluster w/ 3 #1853 Serrated Jaw 1.66" Aluminum Duck Bill Clamps	5	5.4 (2.5)
2685	Assembled Ground Cluster Set 1 ea. #2516 Serrated Aluminum "C" Clamp 1.5" Cluster 74 ft. #2637 1/0 Cu. Cable 3 pr. #2027 Ferrules, 1 ea. #2103 Screw Ground Rod 1 ea. #2654 Storage Bag 1 ea. #1895 "C" Clamp, 1.5"	2	54.2 (24.6)
4248	Assembled Ground Cluster Set 1 ea. #1790 Smooth Bronze Duck Bill Cluster 76 ft. #2636 #2 Cu. Cable 3 pr. #2022 Ferrules, 1 ea. #2103 Screw Ground Rod 1 ea. #2654 Storage Bag	1	54.2 (24.6)

Clusters are also available with Mounted Clamps, consult the factory for more information.  
Optional ground set label available upon request when ordering.

# GROUNDING SETS & 4-WAY CONNECTORS

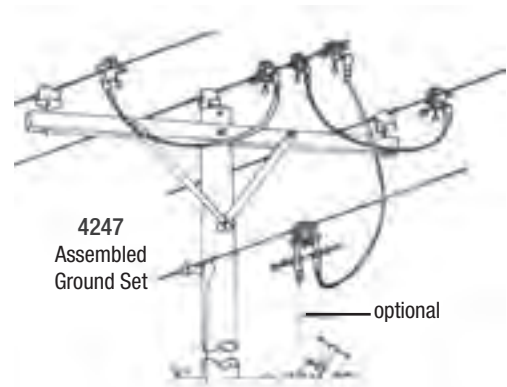
## 4 WIRE UNIVERSAL GROUNDING CLUSTERS & SETS

**GROUNDING CLUSTERS** make it easy for a single line worker to apply multiple grounding assemblies. All clusters have an option of a ground lead by using the extra connection point on each cluster. Four wire clusters are recommended for three phase Wye systems. Complete grounding cluster assemblies are available from the factory. By specifying the cable size and length required, the assembly will be made to your specifications.



The **2680 4-WAY CONNECTOR** ground set provides an excellent system for the grounding of a 3 phase system (Fig. A & B pg. I-21).

**4-WAY CONNECTORS** are used to create a common connection between the conductor leads and the ground lead of a ground set.



CAT. NO.	DESCRIPTION	ASTM GRADE	WEIGHT EA. lbs. (kgs)
<b>4 WIRE UNIVERSAL GROUNDING CLUSTERS &amp; SETS</b>			
1794	Cluster w/ 6 #1793 Smooth Jaw 556 MCM Bronze Duck Bill Clamps	4	9 (4.1)
2192	Cluster w/ 6 #1895 Serrated Jaw 1.5" Aluminum "C" Clamps	5	11.8 (5.4)
2536	Cluster w/ 6 #2531 Smooth Jaw 1" Aluminum "C" Clamps	5	8.8 (4)
2604	Cluster w/ 6 #1853 Serrated Jaw 1.66" Aluminum Duck Bill Clamps	5	6.2 (2.8)
2682	Assembled Ground Cluster 1 ea. #1794 Smooth Bronze Duck Bill Cluster 18 ft. #2636 #2 Cu. Cable 3 pr. #2022 Ferrules 1 ea. #2654 Storage Bag	1	14.5 (6.6)
4247	Assembled Ground Cluster 1 ea. #2536 Smooth Aluminum "C" Cluster 18 ft. #2637 1/0 Cu. Cable 3 pr. #2027 Ferrules 1 ea. #2654 Storage Bag	2	18 (8.2)
<b>4-WAY CONNECTOR GROUND SET</b>			
2680	Four Way Connector Ground Set - Grade 2, 21 kA 15 cycles 1 #2374 Four Way Connector w/ Sleeves 4 #1895 1.5" Serrated Jaw Clamps w/ Sleeves 1 #2427 Double Hanger Stud, 1 #2402 Contact Stud 34 ft. #2137 1/0 Cu. Cable 4 pr. #2027 Ferrules	2	28 (12.7)
2374	Threaded Ferrule Four Way Connector	5	1.8 (.8)
21702	Threaded Ferrule Four Way Connector 1 3/4 long x 2 1/4 dia.	5	.5 (.23)
24438	Plain Ferrule Four Way Connector	5	2 (.9)



24438



21702



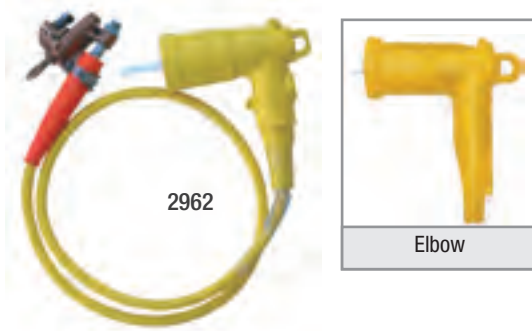
2374

Optional ground set label available upon request when ordering.

## DEAD FRONT GROUNDING JUMPERS & ELBOWS



22630



2962

Elbow

**DEAD FRONT GROUND SETS** are supplied with an insulated grounding elbow, yellow jacketed copper grounding cable and a 1815 bronze flat jaw ground clamp for the ground connection. **GROUNDING ELBOWS** are equipped with arc quenching tips as provided on standard load break elbows.

Both 15 kV and 25 kV elbows are available with connectors for 1/0 or 2/0 cable. Assembled sets for 15 kV and 25 kV are available for single phase or three phase grounding requirements. The fault duty rating for 200 amp grounding elbows is 10 kA for 10 cycles per IEEE 386. Standard three phase sets have a 4 ft. tail connecting to a 2374 four wire connector with 2 ft. leads for the elbows. Sets can be factory assembled to customer specifications.

CAT. NO.	DESCRIPTION	WEIGHT EA. lbs. (kgs)
<b>COMPLETE 3 PHASE DELTA</b>		
2910	15 kV Elbow w/ 1/0 Cable Connector	1.7 (.7)
2912	15 kV Elbow w/ 2/0 Cable Connector	1.7 (.7)
2935	25 kV Elbow w/ 1/0 Cable Connector	2 (.9)
2936	25 kV Elbow w/ 2/0 Cable Connector	2 (.9)

CAT. NO.	DESCRIPTION	WEIGHT EA. lbs. (kgs)
<b>COMPLETE 3 PHASE DELTA</b>		
2961	15 kV Single Phase, 6 ft. 1/0 Cable w/ Bag	10 (4.5)
2962	15 kV Single Phase, 6 ft. 1/0 Cable w/o Bag	8 (3.6)
2963	15 kV Three Phase, 1/0 Cable w/ Bag	22 (10)
22630	15 kV Three Phase, 1/0 Cable w/o Bag	20 (9)
2971	25 kV Single Phase, 6 ft. 1/0 Cable w/ Bag	13 (5.9)
22631	25 kV Single Phase, 6 ft. 1/0 Cable w/o Bag	11 (5)
2973	25 kV Three Phase, 1/0 Cable w/ Bag	24 (10.9)
22632	25 kV Three Phase, 1/0 Cable w/o Bag	22 (10)

Optional ground set label available upon request when ordering.

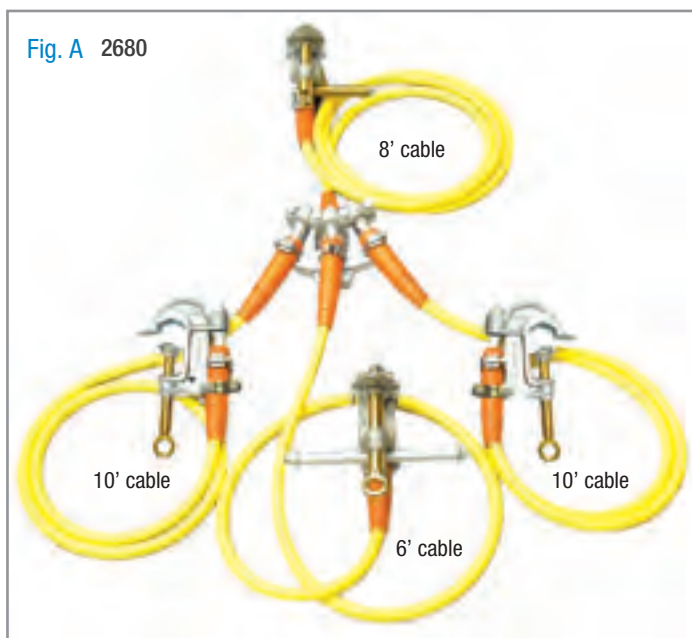


Fig. A 2680

8' cable

10' cable

6' cable

10' cable

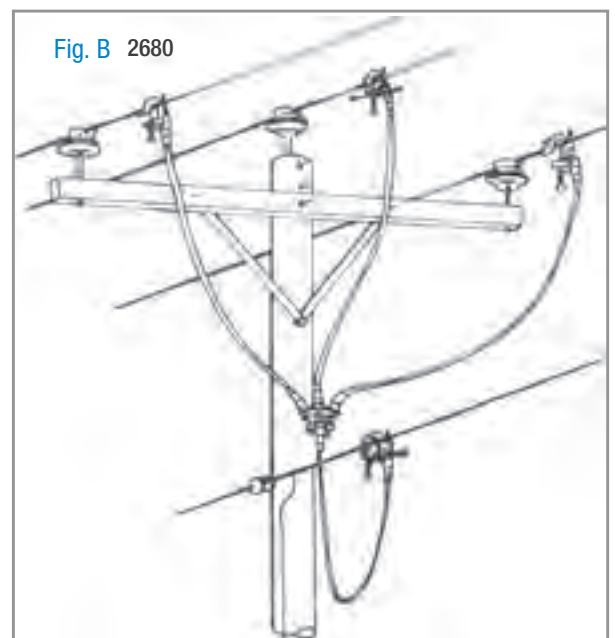


Fig. B 2680





**ASTM F855-09 TABLE 1 - PROTECTIVE GROUNDING CLAMP RATINGS**

**TABLE 1 Protective Ground Cable, Ferrule, Clamp and Assembly Ratings for Symmetrical Current**

Grade	Grounding Clamp Torque Strength, min				Short Circuit Properties <sup>A</sup>							Continuous Current Rating, A RMS, 60 Hz
	Yield <sup>B</sup>		Ultimate		Withstand Rating, Symmetrical kA RMS, 60 Hz			Ultimate Rating Capacity <sup>C,D</sup> , Symmetrical kA RMS, 60 Hz				
	lbf-in.	n-m	lbf-in.	n-m	15 cycles (250 ms)	30 cycles (500 ms)	Copper Cable Size	15 cycles (250 ms)	30 cycles (500 ms)	60 cycles (1 s)	Maximum Copper Test Cable Size	
1	280	32	330	37	14	10	#2	18	13	9	2/0	200
2	280	32	330	37	21	15	1/0	29	21	14	4/0	250
3	280	32	330	37	27	20	2/0	37	26	18	4/0	300
4	330	37	400	45	34	25	3/0	47	33	23	250 kcmil	350
5	330	37	400	45	43	30	4/0	59	42	29	250 kcmil	400
6	330	37	400	45	54	39	250 kcmil or 2 2/0	70	49	35	350 kcmil	450
7	330	37	400	45	74	54	350 kcmil or 2 4/0	98	69	48	550 kcmil	550

<sup>A</sup> Withstand and ultimate short circuit properties are based on performance with surges not exceeding 20 % asymmetry factor (see 9.1 and 12.3.4.2).  
<sup>B</sup> Yield shall mean no permanent deformation such that the clamp cannot be reused throughout its entire range of application.  
<sup>C</sup> Ultimate rating represents a symmetrical current which the assembly or individual components shall carry for the specified time.  
<sup>D</sup> Ultimate values are based upon application of Onderdonk's equation to 98 % of nominal circular mil area allowed by Specifications B 172 and B 173.

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**ASTM F855-09 TABLE 2 - GROUNDING CABLE FERRULE AND ASSEMBLY RATINGS**

**TABLE 2 Ultimate Assembly Rating for High X/R Ratio Applications**

Grade	Size	High Asymmetrical Test Requirements			
		Rating Rated Current (kA)	X/R = 30	Last Cycle Current Peak (kA)	Test Duration (cycles)
			1st Cycle Current Peak (kA) X 2.69		
1H	No. 2	15	41	23	15
2H	1/0	25	65	37	15
3H	2/0	31	84	46	15
4H	3/0	39	105	58	15
5H	4/0	47	126	70	15
6H	250 MCM	55	148	82	15
7H	350 MCM	68	183	101	15

NOTE 1—The above current values are based on electromechanical test values.  
 NOTE 2—Assemblies that have been subjected to these shall not be re-used.  
 NOTE 3—For use with currents exceeding 20 % asymmetry factor.  
 NOTE 4—See X4.7.2 for additional information.  
 NOTE 5—Alternate testing circuits are available for laboratories that cannot achieve the above requirements. See Appendix X4 for details.

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# TEMPORARY PROTECTIVE GROUNDING EQUIPMENT safety line



# TEMPORARY PROTECTIVE GROUNDING EQUIPMENT

## safety line

### ADDITIONAL SCREW OPTIONS AVAILABLE WHERE DESIGNATED



B

Bayonet



E

Stainless Steel  
Eye



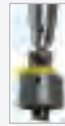
EB

Bronze  
Eye



PG

Posigrip



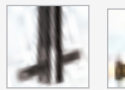
QC

Quick  
Change



RT

Removable  
T-Handle



T

Stainless Steel  
T-Handle



TB

Bronze  
T-Handle



#### Bayonet Ferrule

Installs/removes ground heads equipped with bayonet studs.

98B Quick Change 1 lbs. (0.45 kgs)

Add suffix "U" for Universal, "Q" for Quick Change

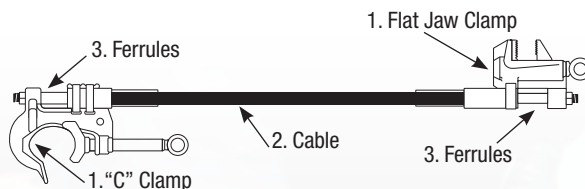
## NOTE:

Salisbury by Honeywell's Safety Line grounding equipment offers solutions for all applications. This line of temporary protective grounding equipment offers a wide variety of products to meet many individual needs. These products are available in complete assemblies or individual components.

**PLEASE NOTE:** When ordering assemblies of grounding products, please make sure all items included in the assembly are only from the product line found within this section. Including items from other grounding equipment sections of this book will add additional shipping time.

# SAFETY LINE TEMPORARY PROTECTIVE GROUNDING EQUIPMENT

## GROUND SET CHECKLIST



**1. Specify the clamps.** Two are required for a complete assembly. The maximum amperage of the clamp is designated by the ASTM grade of each clamp. Be sure that the clamp will meet or exceed the maximum amperage rating of the ground cable that it will be used with.

**2. Specify the cable.** Once the short circuit capacity of the system has been determined, choose the appropriate size cable. Specify the cable length and the color of the jacket desired.

**3. Specify the ferrules.** One pair of ferrules is required per assembly. The size of the ferrule must match the size of the cable that it will be used with. Specify copper or aluminum and shrouded or non-shrouded.

**4. Specify the options.** List any optional equipment that is desired. This can include hanger studs, contact studs, heat shrink tubing, markings, clear strain relief, etc.

Options also include a ground set label. These optional labels include the date of manufacture and are available upon request when ordering.

## HOW TO SPECIFY TEMPORARY PROTECTIVE GROUNDING ASSEMBLIES.

A grounding assembly in its basic form consists of two clamps, one pair of ferrules and a length of cable.

The clamps can be identical to each other or quite different depending on each grounding application. Because of this, ground clamps are sold individually, not in pairs. Salisbury offers a wide variety of clamps including C-clamps, flat jaw clamps, socket clamps, duckbill clamps and specialty clamps for unique situations. Clamps are offered in either bronze or aluminum alloys and are manufactured to meet the current specifications of ASTM F 855.

To attach a clamp to the grounding cable requires the use of a ferrule. Ferrules are compressed on the strands of the cable to provide a low resistance permanent connection. The size of the ferrule is determined by the size of the cable. Ferrules are available in aluminum or plated copper. Plated copper ferrules can be used with either aluminum or bronze clamps. Two ferrules are required for each assembly therefore they are sold in pairs. Ferrules are manufactured to the specifications of ASTM F855.

The final component that makes up a ground set is the grounding cable itself. The size of the cable is dependent on the short circuit current capacity of the system being grounded. Once this is determined, only the length of the cable and the color of the jacket need to be specified to complete the assembly.

**Salisbury by Honeywell is your complete source for grounding equipment and assemblies.**

# DUCK BILL GROUNDING CLAMPS

## 1.13" AND 1.63" SIZES



767E



768E

Open Duck Bill Clamp: Includes springs that keep jaw open for easy application.



760SRS6E



Strain Relief System

CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
<b>1.13" SMOOTH JAW ALUMINUM DUCK BILL CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
767E	Stainless Steel Eye, Smooth Jaw	3 / A	795 MCM ACSR to #6 .19" - 1.13" (4.8 mm - 28.7 mm) Dia.	300 RMS Amps, 60Hz	1.4 (0.63)
768E	Stainless Steel Eye, Open Clamp, Smooth Jaw	3 / A		300 RMS Amps, 60Hz	1.4 (0.63)
<b>1.63" SMOOTH JAW ALUMINUM DUCK BILL CLAMPS - THREADED</b>					
760006E	Stainless Steel Eye, Smooth Jaw	5 / A	954 MCM ACSR to #6 .19" - 1.63" (4.8 mm - 41 mm) Dia.	400 RMS Amps, 60Hz	3.0 (1.36)
760SR6E	Stainless Steel Eye, Smooth Jaw w/ strain relief system	5 / A		400 RMS Amps, 60Hz	2.2 (1.00)
760SR6PSE	Stainless Steel Eye, Smooth Jaw, w/ AL Parking Stand & Strain Relief System	5 / A		400 RMS Amps, 60Hz	1.6 (0.73)
760SRS6E	Stainless Steel Eye, Serrated Jaw w/ Strain Relief System	5 / B		400 RMS Amps, 60Hz	2.2 (1.00)
<b>1.63" SMOOTH JAW ALUMINUM DUCK BILL CLAMPS - PIN - W/O STRAIN RELIEF SYSTEM</b>					
761E	Stainless Steel Eye, Smooth Jaw w/ AL Parking Stand	3 / A	954 MCM ACSR to #6 .19" - 1.63" (4.8 mm - 41 mm) Dia.	300 RMS Amps, 60Hz	1.4 (0.63)

Additional screw options available. See page J-2 or contact your local Salisbury Representative for more information.

# "C" TYPE GROUNDING CLAMPS

.75" AND 1.25" SIZES



7640001E



7640001EB



7640CMS1E



760001E



760001EB



760CM1E



Strain Relief System

CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (Kgs)
<b>0.75" ALUMINUM "C" CLAMP - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
7640001E	Stainless Steel Eye, Smooth Jaw	5 / A	2 Ø MCM ACSR to #6 .19" - .75" (4.8 mm - 19 mm) Dia.	400 RMS Amps, 60Hz	1.0 (0.45)
7640001EB	Bronze Eye, Smooth Jaw	5 / A		400 RMS Amps, 60Hz	1.0 (0.45)
76400S1E	Stainless Steel Eye, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	1.0 (0.45)
76400S1EB	Bronze Eye, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	1.0 (0.45)
<b>0.75" BRONZE "C" CLAMP - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
7640CM1E	Stainless Steel Eye, Smooth Jaw	5 / A	2 Ø MCM ACSR to #6 .19" - .75" (4.8 mm - 19 mm) Dia.	400 RMS Amps, 60Hz	3.0 (1.40)
7640CMS1E	Stainless Steel Eye, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	3.0 (1.40)
<b>1.25" ALUMINUM "C" CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
760001E	Stainless Steel Eye, Smooth Jaw	5 / A	900 MCM ACSR to #6 .19" - 1.25" (4.8 mm - 131.8 mm) Dia.	400 RMS Amps, 60Hz	1.0 (0.45)
760001EB	Bronze Eye, Smooth Jaw	5 / A		400 RMS Amps, 60Hz	1.0 (0.45)
760001RT	Stainless Steel Removable T, Smooth Jaw	5 / A		400 RMS Amps, 60Hz	1.0 (0.45)
760001T	Stainless Steel T-Handle, Smooth Jaw	5 / A		400 RMS Amps, 60Hz	1.0 (0.45)
760001PSE	Stainless Steel Eye, w/ Parking Stand, Smooth Jaw	5 / A		400 RMS Amps, 60Hz	1.3 (0.59)
760001CS	Stainless Steel Eye, w/ Steel Parking Stand, Smooth Jaw	5 / A		400 RMS Amps, 60Hz	1.3 (0.59)
7600S1EB	Bronze Eye	5 / B		400 RMS Amps, 60Hz	- -
<b>1.25" BRONZE "C" CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
760CM1E	Stainless Steel Eye, Smooth Jaw	5 / A	900 MCM ACSR to #6 .19" - 1.25" (4.8 mm - 31.8 mm) Dia.	400 RMS Amps, 60Hz	3.3 (1.50)
760MS1E	Stainless Steel Eye, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	3.3 (1.50)

# "C" TYPE GROUNDING CLAMPS

## 2.13" AND 2.5" SIZES



76600S1PG



7660001E



7512B

CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
<b>2.13" ALUMINUM "C" CLAMP - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
7660001E	Stainless Steel Eye, Smooth Jaw	5 / A	3000 MCM ACSR to #6 .25" - 2.13" (6.4 mm - 54 mm) Dia.	400 RMS Amps, 60Hz	2.0 (0.91)
76600S1E	Stainless Steel Eye, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	2.0 (0.91)
76600S1PG	Posigrip, Stainless Steel, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	2.0 (0.91)
<b>2.5" ALUMINUM "C" CLAMP - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
7512B	Stainless Steel Bayonet, Smooth Jaw	5 / A	2.0" I.P.S. to #6 0.5" - 2.5" (12.7 mm - 63.5 mm) Dia.	400 RMS Amps, 60Hz	4.0 (1.82)
7512E	Stainless Steel Eye, Smooth Jaw	5 / A		400 RMS Amps, 60Hz	4.0 (1.82)

Additional screw options available. See page J-2 or contact your local Salisbury Representative for more information.

# BUS BAR AND BUS BAR ALLIGATOR CLAMPS

.5", AND 4.4" SIZES



7575FE



7542E



7542B



7541T

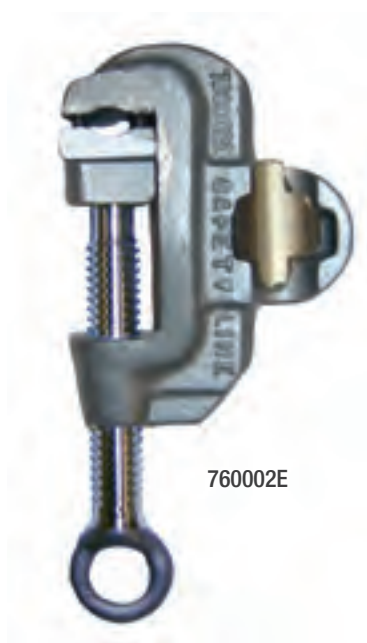
CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
<b>0.5" BRONZE BUS BAR ALLIGATOR CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
7575FE	Stainless Steel Eye, Smooth Jaw	2 / A	.0234" - .05" (6 mm - 12.7 mm) Dia.	250 RMS Amps, 60 Hz	2.0 (0.91)
7575FEST	Stainless Steel Eye-T, Smooth Jaw	2 / A		250 RMS Amps, 60 Hz	2.0 (0.91)
7575FGA	Grip-All, Stainless Steel, Smooth Jaw	2 / A		250 RMS Amps, 60 Hz	2.0 (0.91)
7575FPSE	Stainless Steel Eye, w/ Parking Stand, Smooth Jaw	2 / A		250 RMS Amps, 60 Hz	2.0 (0.91)
<b>0.5" BRONZE BUS BAR ALLIGATOR CLAMPS WITH TEETH - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
7575FTGA	Stainless Steel Grip-All, Serrated Jaw	2 / B	0.234" - .05" (6 mm - 12.7 mm) Dia.	250 RMS Amps, 60 Hz	2.0 (0.91)
<b>4.4" ALUMINUM BUS BAR CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
7541E	Stainless Steel Eye, Serrated Jaw	5 / B	0.31" - 4.25" (7.9 mm - 112 mm) Dia.	400 RMS Amps, 60Hz	2.0 (0.91)
7541T	Stainless Steel T-Handle, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	2.0 (0.91)
<b>4.4" ALUMINUM BUS BAR CLAMPS - PIN - W/O STRAIN RELIEF SYSTEM</b>					
7542B	Stainless Steel Bayonet, Serrated Jaw	5 / B	0.31" - 4.25" (7.9 mm - 112 mm) Dia.	400 RMS Amps, 60Hz	2.0 (0.91)

Additional screw options available. See page J-2 or contact your local Salisbury Representative for more information.



# GROUNDING CLAMPS FOR FLATS & ANGLES

## 1.4" AND 1.5" SIZES



760002E



760CM3E



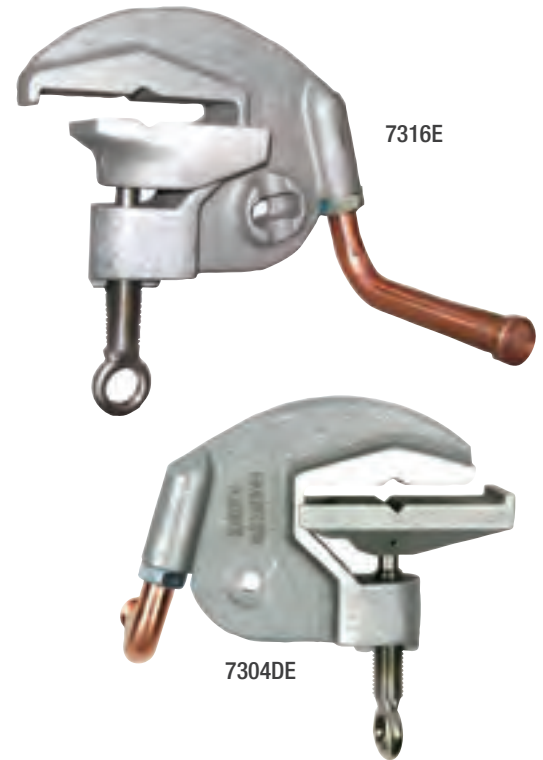
760CMSR3E

CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
<b>1.4" ALUMINUM FLAT FACE CLAMPS - PIN - W/O STRAIN RELIEF SYSTEM</b>					
760002E	Stainless Steel Eye, Serrated Jaw	5 / B	0.19" - 1.4" (4.8 mm - 35.6 mm) Dia.	400 RMS Amps, 60Hz	1.0 (0.45)
760002T	Stainless Steel T-Handle, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	1.0 (0.45)
<b>1.4" BRONZE FLAT FACE CLAMPS - THREADED</b>					
760CMSR3E	Stainless Steel Eye, W/ Strain Relief System Serrated Jaw	5 / B	0.19" - 1.4" (4.8 mm - 35.6 mm) Dia.	400 RMS Amps, 60Hz	4.5 (2.0)
<b>1.5" ALUMINUM FLAT FACE CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
760003E	Stainless Steel Eye, Serrated Jaw	5 / B	0.19" - 1.5" (4.8 mm - 38 mm) Dia.	400 RMS Amps, 60Hz	1.2 (0.54)
<b>1.5" BRONZE FLAT FACE CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
760CM3T	Stainless Steel T-Handle, Serrated Jaw	5 / B	0.19" - 1.5" (4.8 mm - 38 mm) Dia.	400 RMS Amps, 60Hz	3.2 (1.40)
760CM3E	Stainless Eye, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	3.2 (1.40)

Additional screw options available. See page J-2 or contact your local Salisbury Representative for more information.

# GROUNDING CLAMPS FOR FLATS & ANGLES

2.5" AND 4" SIZES

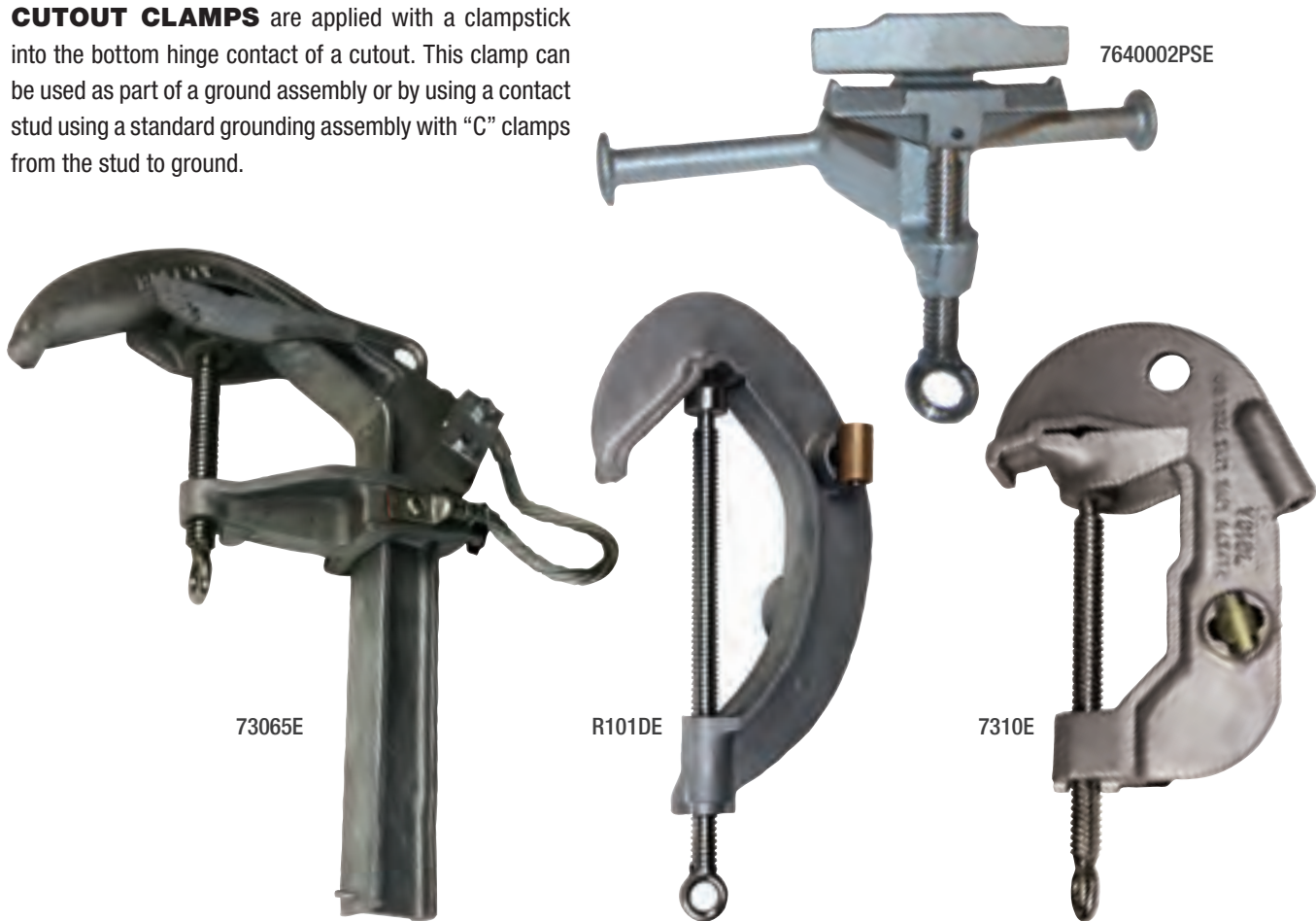


CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
<b>2.5" ALUMINUM ALL ANGLE CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
7315E	Stainless Steel Eye, Serrated Jaw	5 / B	2" I.P.S. to #4 0.25" - 2.5" (6.4 mm - 54 mm) Dia.	400 RMS Amps, 60Hz	4.3 (2.00)
7315PG	Bronze Posigrip, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	4.3 (2.00)
<b>2.5" ALUMINUM TOWER ANGLE CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
73025T	Stainless Steel T-Handle, Smooth Jaw	5 / A	0.3" - 1.6" (8-41 mm) Dia.	400 RMS Amps, 60Hz	2.5 (1.14)
<b>4" ALUMINUM TOWER ANGLE CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
7304T	Stainless Steel T-Handle, Smooth Jaw	5 / A	0.25" - 0.94" (6-24 mm) Dia.	400 RMS Amps, 60Hz	3.3 (1.50)
<b>4" ALUMINUM TOWER ANGLE CLAMPS - PIN + THREADED - W/O STRAIN RELIEF SYSTEM</b>					
7314T	Stainless Steel T-Handle, Smooth Jaw	5 / A	0.25" - 0.94" (6-24 mm) Dia.	400 RMS Amps, 60Hz	3.3 (1.50)
<b>4" ALUMINUM TOWER ANGLE CLAMPS WITH COPPER PARKING STAND - RATED FOR 49KA FOR 15 CYCLES W/ X/R=25</b>					
7316E	Stainless Steel Eye, Smooth Jaw	Exceeds Grade 5	Outside Angle Clamp 4" max.	-	-
7304DE	Stainless Steel Eye, Smooth Jaw	Exceeds Grade 5	Inside Angle Clamp 4" max.	-	-

Additional screw options available. See page J-2 or contact your local Salisbury Representative for more information.

# LARGE SUBSTATION BUS CLAMPS & CUTOUT CLAMPS

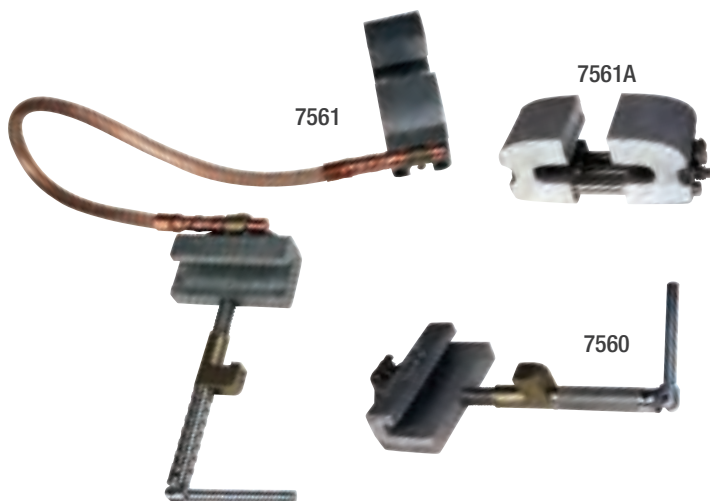
**CUTOUT CLAMPS** are applied with a clampstick into the bottom hinge contact of a cutout. This clamp can be used as part of a ground assembly or by using a contact stud using a standard grounding assembly with “C” clamps from the stud to ground.



CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
<b>4.5" ALUMINUM SUBSTATION BUS CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
7311E	Stainless Steel Eye, Smooth Jaw	5 / A	0.5" - 4.5" (12.7 mm - 114 mm) Dia.	400 RMS Amps, 60Hz	4.0 (1.82)
<b>4.5" ALUMINUM SUBSTATION BUS CLAMPS - PIN - W/O STRAIN RELIEF SYSTEM</b>					
7310E	Stainless Steel Eye, Smooth Jaw	5 / A	1/2" I.P.S., 0.5"-4.5" (12.7 mm - 114 mm) Dia.	400 RMS Amps, 60Hz	4.0 (1.82)
<b>6" ALUMINUM SUBSTATION BUS CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
R101DE	Stainless Steel Eye, Serrated Jaw	5 / B	1 Ø I.P.S., 0.5" - 6" (12.7 mm - 152 mm) Dia.	400 RMS Amps, 60Hz	4.0 (1.82)
<b>7" ALUMINUM SUBSTATION BUS CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM</b>					
73065E	Stainless Steel Eye, Smooth Jaw	5 / A	0.4" - 7" (10.2 mm - 178 mm) Dia.	400 RMS Amps, 60Hz	6.7 (3.00)
<b>1.63" ALUMINUM CUTOUT CLAMPS - THREADED - W/O STRAIN RELIEF SLEEVE</b>					
7640002E	Stainless Steel Eye, Smooth Jaw	3 / A	0.188" - 1.63" (4.77 mm - 41.4mm) Dia.	300 RMS Amps, 60Hz	1.0 (0.45)
7640002PSE	Stainless Steel Eye, w/ Al. Dbl. Parking Stand, Smooth Jaw	3 / A		300 RMS Amps, 60Hz	1.2 (0.5)
7640002PSEB	Bronze Eye, w/ Al. Dbl. Parking Stand, Smooth Jaw	3 / A		300 RMS Amps, 60Hz	1.2 (0.5)

Additional screw options available. See page J-2 or contact your local Salisbury Representative for more information.

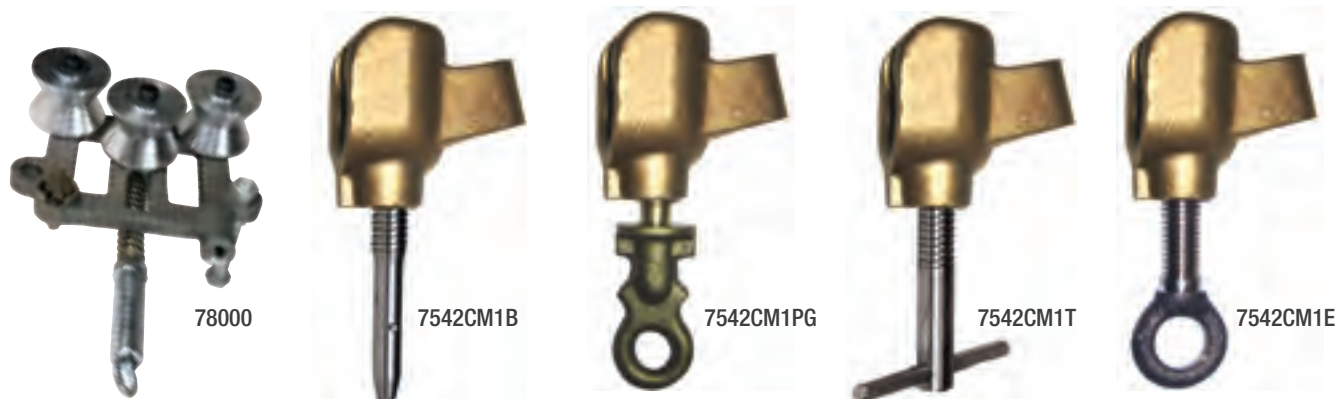
## RUNNING RAIL CLAMPS & BALL & SOCKET SYSTEM



The **RUNNING POWER RAIL GROUND SET** is made up of 7561A power rail clamp and 7560 running rail clamp connected with three feet (91.4 cm) of 4/0 PVC-jacketed copper cable. Set includes one 10024BC, 1" x 24" (2.5 x 61 cm) fiberglass handle with bayonet to operate the power rail clamp.

The **BALL AND SOCKET GROUNDING SYSTEM** has a lightweight compact design and allows for variable angle accessibility. These clamps are made from bronze alloy and have a socket size of 1" (25.4 mm) with a threaded bore boss of 5/8"-11 UNC. There are fixed grounding points on the socket clamp.

See page K-3 for ball socket studs and accessories available.



CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
<b>5.75" ALUMINUM RUNNING RAIL CLAMP - PIN</b>					
7560	Stainless Steel Toggle Handle, Smooth Jaw	5 / A	5" - 5.75"	400 RMS Amps, 60Hz	5.0 (2.27)
<b>4" ALUMINUM POWER RAIL CLAMP - PIN</b>					
7561A	Stainless Steel Bayonet, Smooth Jaw	5 / A	0" - 4"	400 RMS Amps, 60Hz	7.0 (3.17)
<b>TRAVELING GROUND</b>					
7561	Running Power Rail Ground Set	5	-	-	15 (6.80)
<b>1.63" ALUMINUM TRAVELING GROUND CLAMPS - PIN/THREADED</b>					
78000	Stainless Steel Eye, w/ Contact Stud, Smooth Jaw	3 / A	0.125" - 1.63"	300 RMS Amps, 60Hz	10 (4.54)

CAT. NO.	DESCRIPTION	ASTM GRADE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
<b>BALL &amp; SOCKET SYSTEM</b>				
7542CM1B	Smooth Jaw, Threaded, w/ Stainless Steel Bayonet	5	400	1.5 (.68)
7542CM1E	Smooth Jaw, Threaded, w/ Stainless Steel Eye	5	400	1.5 (.68)
7542CM1PG	Smooth Jaw, Threaded, w/ Bronze Posigrip	5	400	1.5 (.68)
7542CM1T	Smooth Jaw, Threaded, w/ Stainless Steel T-Handle	5	400	1.5 (.68)

Additional screw options available. See page J-2 or contact your local Salisbury Representative for more information.

## THREADED & PIN FERRULES FOR SAFETY LINE SETS

For **THREADED FERRULES** (Terminals) the recommended torque applied during installation of jam nut for threaded ferrules is 20 ft.-lb. These threaded ferrules include one brass jam nut and one lock washer. For **PIN TERMINALS** the recommended torque applied during installation of pin ferrule eye bolts is 28 ft.-lb.

**GROUNDING CABLES** are made with extra flexible strand of soft drawn #30 AWG (.01") copper and are available in three different jackets.



CAT. NO.	CONDUCTOR SIZE	STYLE	STUD SIZE	BODY DIE CODES	SHROUD DIE CODES	LENGTH STRIPPED INCHES
<b>COPPER SHROUDED</b>						
760001CT40	#2	Threaded	5/8-11	U27RT	U27ART	1-5/8
760001CT41	1/0	Threaded	5/8-11	T&B 66	B75-AH	1-15/16
760001CT42	2/0	Threaded	5/8-11	T&B 66	B75-AH	2
76CT43	4/0	Threaded	5/8-11	T&B 66	B75-AH	2
760001PT40	#2	Pin	11/16	U27RT	U27ART	1-5/8
760001PT41	1/0	Pin	11/16	T&B 66	B75-AH	1-15/16
760001PT42	2/0	Pin	11/16	T&B 66	B75-AH	2
76PT43	4/0	Pin	11/16	T&B 66	B75-AH	2

Add suffix "T" to the catalog number when requesting tin-plated copper.

<b>COPPER UNSHROUDED</b>						
98132022	#2	Threaded	5/8-11	U243	-	1-5/16
98132023	1/0	Threaded	5/8-11	U243	-	1-5/16
98132024	2/0	Threaded	5/8-11	T&B 60	-	1-5/16
98132025	4/0	Threaded	5/8-11	T&B 62	-	1-5/16
98132022P	#2	Pin	11/16	U243	-	1-5/16
98132023P	1/0	Pin	11/16	U243	-	1-5/16
98132024P	2/0	Pin	11/16	T&B 60	-	1-5/16
98132025P	4/0	Pin	11/16	T&B 62	-	1-5/16

**SINGLE POINT DISTRIBUTION GROUNDING SET & BALL SOCKET 4-WAY CONNECTOR SETS**



Grounding Sets



75420010236

**SETS FOR GROUNDED “Y” SYSTEMS** provide all the equipment required to safely ground a variety of structures on grounded “Y” distribution systems. Factory assembled kits are for conductors ranging from #6 to 1-1/2” (3.8 cm) diameter, with serrated jaw “C” clamps with threaded terminals. All clamps are supplied with eye screws for installation with clampstick (not included). Other lengths and configurations are available.

**STANDARD EQUIPOTENTIAL GROUNDING SETS** provide all the equipment required to safely ground a variety of structures on delta distribution systems. Factory assembled kits are for conductors ranging from #6 to 1-1/2” (3.8 cm) diameter, with smooth or serrated jaw clamps with threaded terminals. All clamps are supplied with eye screws for installation with grip-all clampsticks (not included). Other lengths and configurations are available.

**BALL SOCKET 4-WAY CONNECTOR SETS** are designed for variable angle accessibility, three-phase grounding. It is supplied with three-foot leads and six feet of cable from a common connection to ground. Upper heads are ball socket clamps (7542CM1E). Lower ground head is a standard “C” type ground head (760001E) with a range of #6 to 1-1/4” (32 mm). Ball studs needed but not included.

CAT. NO.	CABLE SIZE	FAULT DUTY 15 CYCLES	ASTM GRADE	WEIGHT EA. lbs. (Kgs)
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**GROUNDED “Y” SYSTEMS**

763S011	2/0	27 kA	3	69 (31.3)
763S45	4/0	43kA	5	110 (49.9)
Complete Grounded “Y” Set Includes 3 - 6’ (1.83 m) Line Jumpers 1 - 12’ (3.66 m) Line to Ground Jumper 1 - 60’ (18.3 m) Ground Lead 1 - Pole Band 1 - Pole Band Extension 1 - Flat Face Clamp (760003E) 1 - Protective Bag				

**EQUIPOTENTIAL DELTA**

7600011	2/0	27 kA	3	62 (28.1)
760045	4/0	43 kA	5	100 (45.4)
Complete Delta Set Includes 2 - 6’ (1.83 m) Line Jumpers 1 - 12’ (3.66 m) Line to Ground Jumper 1 - 60’ (18.3 m) Ground Lead 1 - Pole Band 1 - Pole Band Extension 1 - Flat Face Clamp (760003E) 1 - Protective Bag				

**BALL SOCKET 4-WAY CONNECTOR SETS**

75420010236	#2	14.5 kA	1	9 (4.08)
75420011036	1/0	21 kA	2	12 (5.44)
75420012036	2/0	27 kA	3	14 (6.35)

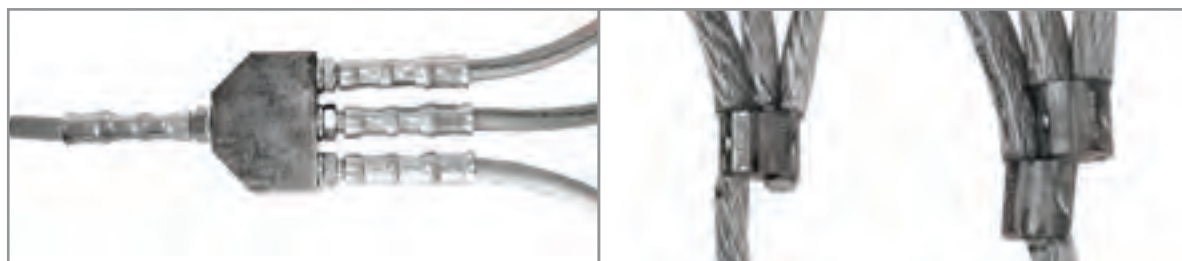
Optional ground set label available upon request when ordering.

## GROUNDING SETS

### 4 WAY CONNECTOR SET, 4 WAY CONNECTOR AND SQUEEZE-ONS

The **4-WAY CONNECTOR SETS** are made with #2 clear-jacketed, extra flexible cable, three 8-foot (2.44 m) leads from the heads to the common connection and one 50-foot (15.25 m) lead from the common connection to the ground connection. The grounding 4-way connector set has a fixture to raise and lower the set which can be easily tied onto the pole. The 752076 grounding 4-way connector set is also supplied with 3 fiberglass handles (10078BC) and a bag. The 752576 grounding 4-way connector set requires a clampstick. Sets come with bags. Other lengths and configurations available. Meets ASTM F 855 Grade 1 specifications. Maximum fault duty is 14.5 kA for 15 cycles.

**4-WAY CONNECTORS** are used to create a common connection between the conductor leads and the ground lead of a ground set.



CAT. NO.	DESCRIPTION	MAX. OPENING in. (cm)	ASTM GRADE	WEIGHT EA. lbs. (kgs)
<b>4 WAY CONNECTOR SETS</b>				
752076	4-Way Connector Set w/ "C" Type Clamps, Bayonet	1 1/4 (3.2)	1	32 (14.5)
752576	4-Way Connector Set w/ "C" Type Clamps, Eye	1 1/4 (3.2)	1	39 (17.9)

CAT. NO.	DESCRIPTION	QTY. REQUIRED	WEIGHT lbs. (kgs)
<b>CONNECTORS FOR GROUND SETS</b>			
76630882	Squeeze-on for #2 Cable	1	0.25 (0.113)
76630782	Squeeze-on for 1/0 - 4/0 Cable	2	0.25 (0.113)
CB36	4-Way Set Block, Copper	1	0.187 (0.085)
CA36	4-Way Set Block, Aluminum	1	0.125 (0.056)

## QUICK GRIP GROUND CLAMPS & GROUNDING SETS



**QUICK GRIP CLAMPS** are specifically designed and ideally suited for temporary grounding where spacing and orientation of components limit the use of traditional ground clamps. The Quick Grip Ground Clamp is available with a Grip-All eye or a Bayonet fitting for installation with a live line tool.

- Available in both the traditional style (VG01) and a hotstick operated version (VG01GA and VG01B).
- Available in a single lead ground jumper or grounding set with 1, 3 or 4 leads for grounding of single or three-phase secondary terminals.
- Fitted with a copper overlay, riveted to the stationary jaw and connected to a grounding jumper with a one hole NEMA connector to assure a low resistance connection.
- The grounding set connection is made using standard copper compression connectors and all connections are covered with a heat-shrink tube to reduce fatigue at stress points.
- The locking jaw pliers are equally suited for flat or rounded terminals.

*Optional flat jaw available.*

CAT. NO. STANDARD	CAT. NO. FLAT JAW	DESCRIPTION	CABLE LENGTH FT. (M)	ASTM GRADE	WEIGHT lbs. (kgs)
<b>QUICK GRIP GROUND CLAMPS &amp; GROUNDING SETS, CLAMP OPENING: MIN. 0.125" - MAX. 1.5"</b>					
VG01	VG01	Locking Pliers, Cu Overlay	N/A	3	1.5 (0.68)
VG01B	VG01B	Locking Pliers, Cu Overlay. Bayonet	N/A	3	1.6 (0.73)
VG01GA	VG01GA	Locking Pliers, Cu Overlay. Grip-All	N/A	3	1.6 (0.73)
VG01033	VG01033	Grounding Set, 3 Leads, 1/0 x 3' with VG01	9 (2.743)	3	10.5 (4.77)
VG01034	VG01034	Grounding Set, 4 Leads, 1/0 x 3' with VG01	12 (3.657)	3	13.2 (5.99)
VG11013	VG11013	Single Lead, 1/0 x 3' with VG01GA	3 (0.914)	3	3.7 (1.68)
VG11033	VG11033	Grounding Set, 3 Leads, 1/0 x 3' with VG01GA	9 (2.743)	3	10.8 (4.9)
VG11034	VG11034	Grounding Set, 4 Leads, 1/0 x 3' with VG01F	12 (3.657)	3	13.6 (6.17)
VG11034B	VG11034B	Grounding Set, 4 Leads, 1/0 x 3' with VG01GB	12 (3.657)	3	13.6 (6.17)

Optional ground set label available upon request when ordering.



## GROUNDING SETS

### INDUSTRIAL GROUND 4-WAY GROUND SETS

The **INDUSTRIAL GROUND SET** consists of three upper ground heads, one lower head, visible trifurcation, six-foot (1.83 m) leads to common connections and a twenty foot lead from common to ground connection. All ground heads (7541B and 7541T) will accept 4"x 4"(10.2 x 10.2 cm) copper or aluminum bus configurations.

Also includes a bag for installation at the main disconnect point. The 7551 includes a one-foot fiberglass handle (10012BC) for installing upper heads.

**NOTE:** 8106C clampstick (not included) must be used to apply 7551GA grounds. Other lengths available. Conductor size is 2/0 copper. Meets ASTM F-855 Grade 3 specifications. Maximum fault duty is 27kA for 15 cycles.



7551

### LIGHTWEIGHT INDUSTRIAL GROUND SETS

are designed for smaller conductor size applications. Clamps used include screws with eyes (GA attachments) for use with a clampstick. A #2 extra flexible copper ground cable is used throughout. The 75FGT0266 has six-foot (1.83m) leads to the common connection and a six-foot lead from the common connection to ground. The 7640244GA uses 4' (1.22 m) leads throughout. Sets include a bag. Other lengths and configurations are available.



75FGT0266

CAT. NO.	DESCRIPTION	ASTM GRADE	WEIGHT lbs. (kgs)
<b>INDUSTRIAL GROUND SETS</b>			
7551	Industrial Ground Set - with Bayonet	1	35 (15.8)
7551GA	Industrial Ground Ser - with Grip-All	3	35 (15.8)

CAT. NO.	DESCRIPTION	CLAMP USED	FAULT DUTY 15 CYCLES	ASTM GRADE	WEIGHT EA. lbs. (kgs)
<b>LIGHTWEIGHT INDUSTRIAL GROUND SETS</b>					
7640244GA	Ultra Lightweight	7640001E	14.5 kA	1	13 (5.90)

Optional ground set label available upon request when ordering.



**GROUND SETS** include three upper heads and are easily and safely attached to the line with the fiberglass handles. The ground heads have a maximum opening of 1-3/4" (4.4 cm) and can be applied to angle irons, flat buses as well as on-line wires. A tight, four-point contact is made with the quick adjusting screw. The handles are easily removed when necessary. The lifting fixture provides ease when raising and lowering the set and eliminates hanging the entire ground set's weight on the conductor. Other lengths and configurations available.

**PARKING STUDS** provide a temporary location to attach ground clamps when raising or lowering multiple ground leads.

**SHRINK TUBE** for terminal connection strain relief fits #2 through 4/0 terminals and ground cable.

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs.)
<b>PARKING STUDS</b>		
76000APS	Single Stud	0.187 (0.085)
<b>SHRINK TUBE</b>		
761ST	6" (15 cm) for Shrouded Ferrules	0.375 (0.170)

CAT. NO.	CABLE SIZE	FAULT DUTY 15 CYCLES	ASTM GRADE	WEIGHT EA. lbs. (kgs)
766FG	#2	14.5 kA	1	42 (19.0)
7661FG	1/0	21 kA	2	43 (19.5)

Standard Ground Set Includes  
 3 - Upper Heads  
 1 - Lower Head  
 1 - Leather, Lace and Lifting Ring  
 74 - Cable only with 8-Foot leads to common connection  
 and 50' from common connection to ground connection  
 3 - 6'6" (1.98 m) Fiberglass Handles  
 1 - Bag for Handles  
 1 Bag for Ground Set

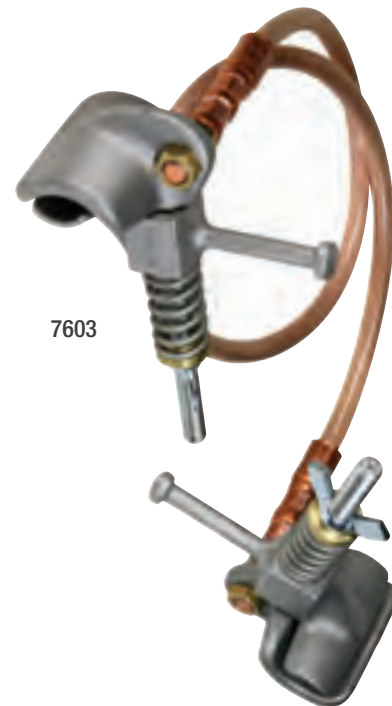
## URD ASSEMBLY, NEUTRAL JUMPER ASSEMBLY & UNDERGROUND DEAD BREAK SET

The **CONCENTRIC NEUTRAL JUMPER ASSEMBLY** is used for bonding purposes on non-jacketed cable. It is usually installed across a portion of cable to be cut, repaired or spliced. The assembly is left in place until the concentric neutral is spliced. As a safety precaution, follow all of your organization's applicable rules and/or policies pertaining to faulted cable, spiking and grounding.

Made with two ground clamps and 4 feet (1.22 m) of 1/0 clear jacketed extra flexible copper cable, the concentric neutral ground clamp is spring pressured. The assemblies have a continuous current rating of 250 amps and fault rated to ASTM Grade 1, 14 KA for 15 cycles. Other lengths are available. Bag not included.

The components of the **UNDERGROUND DEAD BREAK GROUND SET** provide safe and simple grounding methods on padmount transformers or any related URD equipment. These grounds can be ordered in complete sets or individual components. The jumpers are made with 6 foot (1.83m) lengths of #2, clear-jacketed, extra flexible cable. Clamps (7640001E) supplied include an eye for a grip-all insulating stick application.

The **URD GROUNDING ASSEMBLY** is used for underground personal protective grounding elbow used for grounding pad-mounted equipment, switches and transformers when performing de-energized maintenance on URD distribution systems, and draining DC capacitive charges from de-energized URD cables.



7603



ES10YB615LB

CAT. NO.	DESCRIPTION	FOR CABLE DIAMETER in. (cm)	WEIGHT lbs. (kgs)
<b>CONCENTRIC NEUTRAL JUMPER ASSEMBLY</b>			
7603	Assembly	3/4 to 2 (1.9 - 5.1)	12 (5.44)
7603GA	Grip-All Assembly	3/4 to 2 (1.9 - 5.1)	12 (5.44)
<b>PARTS</b>			
7603C	Clamp with Wing Nut		4 (1.81)
7603CGA	Clamp with Grip-All		4 (1.81)
7604C	Clamp with Wing Nut		4 (1.81)
7604CGA	Clamp with Grip-All		4 (1.81)

### 15 KV UNDERGROUND DEAD BREAK GROUND SET

#### LOCAL LOOP

764156STGESO	Full Assembly with Bag		21 (9.52)
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#### ASSEMBLY INCLUDES:

764156234H	3 - Ground Jumper, 6' (1.83 m)		6 (2.72)
764000ST	3 - Ground Stud for Low Profile Transformer		1 (0.45)
764015GE	3 - 15 kV Ground Elbow		1 (0.45)
764015S0	3 - 15 kV Ground Standoff with Spring Bail		1 (0.45)
B1715	1 - Protective Bag		2 (0.91)

#### UNDERGROUND GROUNDING ASSEMBLY

ES10Y615LB	Single, 15 kV		9 (4.08)
ES1Y21015LB	Set, 15 kV		22 (9.98)
ES10Y625LB	Single, 25 kV		10 (4.53)
ES1Y21025LB	Set, 25 kV		23 (10.43)

Optional ground set label available upon request when ordering.



764156STGESO



EB100615

The **SINGLE GROUNDED BUSHING SET** is a single lead made from 6 feet (1.83 m) of 1/0 cable. The bushing set consists of 3 bushing assemblies connected together with 3-foot (0.92 m) leads to a common connection, and 10 feet (3.05 m) from common connection to ground. The conductor is made of 1/0 clear jacketed copper stranded cable. The ground clamp (7640001E) can be applied with a clampstick. Sets come complete with bag; single leads do not. All sets are rated for 10 kA for 10 cycles. Other lengths and configurations are available.



EB1021015

**GROUND BUSHINGS WITH CONNECTIONS** (parking stands for 'J' boxes or padmounts) provide a safe, convenient ground for elbows and a "positive" test to ensure a de-energized elbow.



EB1021015LB

The **ELBOW GROUNDING SET** includes a single lead made from 6 feet (1.83 m) of 1/0 cable. This set consists of 3 elbow assemblies connected together with 3-foot (0.92 m) leads to a common connection, and 10-foot (3.05 m) from a common connection to ground. The conductor is made of 1/0 clear jacketed copper stranded cable. A ground clamp (7640001E) can be applied with a clampstick. Sets are rated for a maximum fault current of 10,000 amps for 10 cycles. Sets come complete with bag; single leads do not. Other lengths and configurations are available.



764015S0

764150025LS0



ES1021015LB

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
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### 200 AMP ELBOW GROUNDING SETS

#### DEAD BREAK

ES100615	Single, 15 kV	8 (3.63)
ES1021015	Set, 15 kV	20 (9.30)

#### LOAD BREAK

ES100615LB	Single, 15 kV	9 (4.08)
ES1021015LB	Set, 15 kV	22 (9.98)
ES3LY635	Set, 35 kV	23 (10.43)
ES100625LB	Single, 25/35 kV	10 (4.53)
ES1021025LB	Set, 25/35 kV	23 (10.43)

### 200 AMP GROUNDED BUSHING SETS

#### DEAD BREAK

EB100615	Single, 15 kV	8 (3.63)
EB1021015	Set, 15 kV	20 (9.30)

#### LOAD BREAK

EB100615LB	Single, 15 kV	9 (4.08)
EB1021015LB	Set, 15 kV	22 (9.98)
EB100625LB	Single, 25 kV	10 (4.53)
EB1021025LB	Set, 25 kV	23 (10.43)

### 200 AMP GROUNDED BUSHINGS WITH CONNECTIONS

#### DEAD BREAK

764015S0	15 kV	1 (0.45)
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#### LOAD BREAK

764150015LS0	15 kV	2 (0.91)
764150025LS0	25 kV	4 (1.81)

Optional ground set label available upon request when ordering.



**ASTM F855-09 TABLE 1 - PROTECTIVE GROUNDING CLAMP RATINGS**

**TABLE 1 Protective Ground Cable, Ferrule, Clamp and Assembly Ratings for Symmetrical Current**

Grade	Grounding Clamp Torque Strength, min				Short Circuit Properties <sup>A</sup>							Continuous Current Rating, A RMS, 60 Hz
	Yield <sup>B</sup>		Ultimate		Withstand Rating, Symmetrical kA RMS, 60 Hz			Ultimate Rating Capacity <sup>C,D</sup> , Symmetrical kA RMS, 60 Hz				
	lbf-in.	n-m	lbf-in.	n-m	15 cycles (250 ms)	30 cycles (500 ms)	Copper Cable Size	15 cycles (250 ms)	30 cycles (500 ms)	60 cycles (1 s)	Maximum Copper Test Cable Size	
1	280	32	330	37	14	10	#2	18	13	9	2/0	200
2	280	32	330	37	21	15	1/0	29	21	14	4/0	250
3	280	32	330	37	27	20	2/0	37	26	18	4/0	300
4	330	37	400	45	34	25	3/0	47	33	23	250 kcmil	350
5	330	37	400	45	43	30	4/0	59	42	29	250 kcmil	400
6	330	37	400	45	54	39	250 kcmil or 2 2/0	70	49	35	350 kcmil	450
7	330	37	400	45	74	54	350 kcmil or 2 4/0	98	69	48	550 kcmil	550

<sup>A</sup> Withstand and ultimate short circuit properties are based on performance with surges not exceeding 20 % asymmetry factor (see 9.1 and 12.3.4.2).

<sup>B</sup> Yield shall mean no permanent deformation such that the clamp cannot be reused throughout its entire range of application.

<sup>C</sup> Ultimate rating represents a symmetrical current which the assembly or individual components shall carry for the specified time.

<sup>D</sup> Ultimate values are based upon application of Onderdonk's equation to 98 % of nominal circular mil area allowed by Specifications B 172 and B 173.

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**ASTM F855-09 TABLE 2 - GROUNDING CABLE FERRULE AND ASSEMBLY RATINGS**

**TABLE 2 Ultimate Assembly Rating for High X/R Ratio Applications**

Grade	Size	High Asymmetrical Test Requirements			
		Rating Rated Current (kA)	X/R = 30 1st Cycle Current Peak (kA) X 2.69	Last Cycle Current Peak (kA)	Test Duration (cycles)
1H	No. 2	15	41	23	15
2H	1/0	25	65	37	15
3H	2/0	31	84	46	15
4H	3/0	39	105	58	15
5H	4/0	47	126	70	15
6H	250 MCM	55	148	82	15
7H	350 MCM	68	183	101	15

NOTE 1—The above current values are based on electromechanical test values.

NOTE 2—Assemblies that have been subjected to these shall not be re-used.

NOTE 3—For use with currents exceeding 20 % asymmetry factor.

NOTE 4—See X4.7.2 for additional information.

NOTE 5—Alternate testing circuits are available for laboratories that cannot achieve the above requirements. See Appendix X4 for details.

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Grade	Grounding Clamp Torque Strength, min				Short Circuit Properties <sup>A</sup>								Continuous Current Rating, A RMS, 60 Hz	
	Yield <sup>B</sup>		Ultimate		Withstand Rating, Symmetrical kA RMS, 60 Hz				Ultimate Rating Capacity <sup>C,D</sup> , Symmetrical kA RMS, 60 Hz					
	lbf-in.	n-m	lbf-in.	n-m	15 cycles (250 ms)		30 cycles (500 ms)	Copper Cable Size	15 cycles (250 ms)		30 cycles (500 ms)	60 cycles (1 s)		Maximum Copper Test Cable Size
					15 cycles (250 ms)	30 cycles (500 ms)			15 cycles (250 ms)	30 cycles (500 ms)				
1	280	32	330	37	14	10	#2	18	13	9	2/0	200		
2	280	32	330	37	21	15	1/0	29	21	14	4/0	250		
3	280	32	330	37	27	20	2/0	37	26	18	4/0	300		
4	330	37	400	45	34	25	3/0	47	33	23	250 kcmil	350		
5	330	37	400	45	43	30	4/0	59	42	29	250 kcmil	400		
6	330	37	400	45	54	39	250 kcmil or 2 2/0	70	49	35	350 kcmil	450		
7	330	37	400	45	74	54	350 kcmil or 2 4/0	98	69	48	550 kcmil	550		

<sup>A</sup> Withstand and ultimate short circuit properties are based on performance with surges not exceeding 20 % asymmetry factor (see 9.1 and 12.3.4.2).

<sup>B</sup> Yield shall mean no permanent deformation such that the clamp cannot be reused throughout its entire range of application.

<sup>C</sup> Ultimate rating represents a symmetrical current which the assembly or individual components shall carry for the specified time.

<sup>D</sup> Ultimate values are based upon application of Onderdonk's equation to 98 % of nominal circular mil area allowed by Specifications B 172 and B 173.

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Grade	Size	High Asymmetrical Test Requirements			
		Rating Rated Current (kA)	X/R = 30 1st Cycle Current Peak (kA) X 2.69	Last Cycle Current Peak (kA)	Test Duration (cycles)
1H	No. 2	15	41	23	15
2H	1/0	25	65	37	15
3H	2/0	31	84	46	15
4H	3/0	39	105	58	15
5H	4/0	47	126	70	15
6H	250 MCM	55	148	82	15
7H	350 MCM	68	183	101	15

NOTE 1—The above current values are based on electromechanical test values.

NOTE 2—Assemblies that have been subjected to these shall not be re-used.

NOTE 3—For use with currents exceeding 20 % asymmetry factor.

NOTE 4—See X4.7.2 for additional information.

NOTE 5—Alternate testing circuits are available for laboratories that cannot achieve the above requirements. See Appendix X4 for details.

Reprinted, with permission, from ASTM F 855-09 Standard Specification for Temporary Protective Grounds to Be Used on De-energized Electric Power Lines and Equipment Table 2, copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428. A copy of the complete standard may be obtained from ASTM, www.astm.org



The **BALL STUDS** and the **OFFSET NEMA PAD BALL STUDS** are made from tin-plated copper alloy or copper. They each have a 1" (25.4 mm) diameter ball. Recommended installation torque of 300 in. lbs. The short stud is used conventionally. The long stud can also be used as the grounding point for "C" or Duck bill clamps that have a jaw width of 2.75" or less. The Offset Nema Pad Ball Stud has the standard Nema bolt hole spacing and also comes in both long and short lengths.

The **BALL STUD COVER** is made from orange SALCOR® which allows for multiple angle application when installed using a clampstick.

CAT. NO.	DESCRIPTION	DIMENSIONS in. (mm)			ASTM GRADE	WEIGHT EA. lbs. (kgs)
		OAL	THREAD	SHANK		
<b>THREAD SIZE - 1/2" - 13 UNC - 2A</b>						
21191	Ball Stud Short, Tin-Plated Copper Alloy	4.38 (111)	2.12 (54)	1 (25)	5	.53 (.24)
7542121BS	Ball Stud, Copper Alloy	4.7 (119)	2.25 (57)	1 (25)	5	.56 (.25)
21192	Ball Stud Long, Tin-Plated Copper Alloy	6.13 (156)	2.12 (54)	2.75 (70)	5	.81 (.37)
7542123BST	Ball Stud, Tin-Plated Copper Alloy	6.78 (172)	2.5 (64)	2.875 (73)	5	.81 (.37)
7542123BS	Ball Stud, Copper Alloy	6.78 (172)	2.5 (64)	2.875 (73)	5	.81 (.37)
7542905BST	900 Ball Stud, Tin-Plated Copper Alloy	7 (178)x 5.2 (132)	2.12 (54)	5.5 (140), 2 (51)	3	1.25 (.57)
<b>THREAD SIZE - 3/8" - 16 UNC - 2A</b>						
7542385BST	Ball Stud, Tin-Plated Copper Alloy	9 (229)	2.12 (54)	5.5 (140)	5	1 (.45)
<b>NEMA PADS AND POTHEAD STUD</b>						
21846	90° Offset Nema Pad, Tin-Plated Copper Alloy	5.75 (147)	-	2.7 (69)	5	1 (.45)
21228	Offset NEMA Pad Short, Tin-Plated Copper Alloy	5.14 (131)	-	1 (25)	5	.84 (.38)
24087	Offset NEMA Pad Long, Tin-Plated Copper Alloy	6.9 (175)	-	2.7 (69)	5H	1 (.45)
<b>INTERNAL THREAD - 1/2" - 13 UNC - 2A</b>						
24082	Internal Thread Ball Stud, Tin-Plated Copper Alloy	3.85 (98)	1.5 (38)	.75 (19)	5	.54 (.25)
7542K	3/4" Ground Knob, Brass	1.4 (36)	1 (25)	.75 (19)	3	.38 (.17)
7542001BSF	Female Ball Stud, Brass	-	1.5 (38)	1 (25)	2	.88 (.40)
21236	Cover for Ball Stud	3 (76)	n / a	n / a	n / a	.09 (.04)



# GROUNDING CLAMP HANGER STUDS

**HANGER STUDS** are designed to be used with all “C” and Duck Bill ground clamps. Hanger Studs are used to hold one clamp of a set while the other is being installed on the de-energized line. Hanger Studs are not designed or tested to carry current.

**21754 Grounding Clamp Hanger Stud can only be placed on clamps designed with a screw down strain relief system.**

CAT. NO.	STUD	FOR USE WITH	WEIGHT EA. lbs. (kgs)
1858	Hanger	Aluminum Duck Bill 1", 1.25", 1.66"	.5 (.2)
1928	Hanger	Aluminum "C" Clamps 1.25", 1.5", 2.4", 3.5"	.5 (.2)
2427	Double Hanger	Aluminum "C" Clamps 1.25", 1.5", 2.4", 3.5"	.5 (.2)
2537	Hanger	Aluminum "C" Clamps 1"	.5 (.2)
2093	Hanger	556 Bronze Duck Bill, 477 Brz. "C" Clamp	.5 (.2)
9983	Hanger	Brass 1", 1.25", 2.4" "C" Clamps	.5 (.2)
21754*	Hanger	Bronze 1", 1.25", 2.4" "C" Clamps	.5 (.2)

\*For use with only Plain Ferrule Clamps and Threaded Ferrule Clamps with a screw down strain relief restraint system.



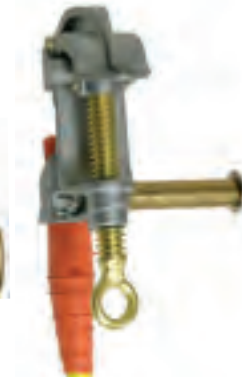
2427



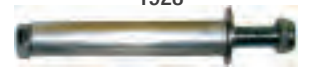
21754\*



9983



1928



2537



## ADAPTERS & TRUCK GROUNDING REEL



760001HDL

The **“T” HANDLE ADAPTER** allows the user to quickly and easily change an eye screw into a “T” handle screw.

**ADAPTERS** are used on any pin type ground clamps. Meets ASTM F-855 Grade 5 specifications. Maximum fault duty is 43 kA for 15 cycles.



7300ABC



7310G



7300AET

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
<b>ADAPTERS</b>		
7300ABC	Pin to Threaded Adapter	0.5 (0.21)
7310G	Eye Bolt Assembly	0.5 (0.21)
7300AET	Pin to Threaded Adapter	0.5 (0.21)

### “T” HANDLE ADAPTER

760001HDL	“T” Handle Adapter	0.5 (0.21)
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**TRUCK GROUNDING REELS** are designed to provide a secure and efficient way to ground trucks and equipment when working on or near energized lines. Bolt-down design allows easy removal of reels for installation on vehicles. Heavy duty construction for rugged field use. Independently tested to 14.5 kA for 30 cycles. Reels with factory installed cable include 6-foot equal gauge and frame bonding jumper. Other end must be attached to frame of vehicle.



HCR0250

CAT. NO.	CABLE LENGTH	CABLE SIZE	FAULT DUTY 15 CYCLES	ASTM F-855 GRADE	WEIGHT lbs. (kgs)
<b>TRUCK GROUNDING REEL SPRING REWIND, 760001E CLAMP</b>					
HSCR0250	50' (15.2 m)	#2	14.5 kA	1	42 (19.0)
HSCR1040	40' (12.2 m)	1/0	21 kA	2	48 (21.7)
HSCR1050	50' (15.2 m)	1/0	21 kA	2	53 (24.0)
<b>TRUCK GROUNDING REEL HAND REWIND, 760001E CLAMP</b>					
HCR0240	40' (12.2 m)	#2	14.5 kA	1	36 (16.3)
HCR0250	50' (15.2 m)	#2	14.5 kA	1	39 (17.7)
HCR1050	50' (15.2 m)	1/0	21 kA	2	51 (23.1)

### REELS WITHOUT CABLE

HCR1	Reel only, hand rewind		21 kA	2	25 (11.3)
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### NOTE:

- Reel model HCR1 will store a maximum length of 150 feet (45.8 m) of #2 cable and 85 feet (25.9m) of 1/0 cable.

## GROUNDING ACCESSORIES

**POLE MOUNTED CONTACT BARS** are designed to act as a convenient common point for electrical connections and also as a hanger for grounding sets during installation and removal. Supplied with a chain and an adjustable wheel binder that will accommodate most common pole diameters. Catalog #20880 has one 5/8-11UNC tapped hole for the permanent connection of a ground lead. The Salisbury 21840 is a lighter-weight pole mounted contact bar.

The **POLE BAND** is lightweight and easy to install. It is a required component of equipotential zone grounding systems.

**TRUCK GROUNDING KIT** contains 2/0 cable, 24 inches (61 cm) long, with a chassis/frame attachment on one end and a grounding stud on the other for Cat. No. 7542TGK. Brings body and chassis to the same ground potential. Other lengths are available. Meets ASTM F-855 Grade 3 specifications.

The Salisbury 2103 **SCREW TYPE TEMPORARY GROUND ROD** is used when an adequate system ground is not available. The design incorporates a copperweld rod with bronze fittings screwed and pinned on both ends. The terminal on the handle is designed to accept cables equipped with a 5/8-11 UNC threaded ferrule. As an alternative, a "C" clamp may also be attached directly to the ground rod shaft.



9998



21840



760001PB



7542TGK



760045PB

2103

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
<b>TRUCK GROUNDING KIT</b>		
7542TGK	Truck Grounding Kit w/ Stud	2 (0.91)

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
<b>SCREW GROUND ROD</b>		
2103	75" (1.9m)long	8 (3.6)

CAT. NO.	DESCRIPTION	FAULT DUTY 15 CYCLES	GRADE	WEIGHT lbs. (kgs)
<b>POLE BAND</b>				
760001PB	Aluminum Bar	27 kA	3	4 (1.81)
760045PB	Copper Bar	43 kA	5	5 (2.27)

CAT. NO.	ASTM GRADE	DESCRIPTION	WEIGHT EA. lbs. (kgs)
<b>POLE MOUNTED CONTACT BARS</b>			
9998	5	Contact Bar No Connection 40" Chain w/ Adjustable Wheel Binder	9.1 (4.1)
21840	5	Contact Bar No Connection 40" Chain w/ Adjustable Wheel Binder	7 (3.3)
20880	5	Contact Bar One Connection 40" Chain w/ Adjustable Wheel Binder	9.1 (4.1)



4110



4337



4108



4113



4112



4111

**TUBULAR BRUSHES** are preferred when rubber gloving or when working on de-energized conductors. The steel bristles are internal to prevent damaging rubber gloves. The 2.5" tubular brush is used in confined areas such as between two connectors or clamps.

The **"V" TYPE WIRE BRUSHES** are available with epoxy-coated handle or universal attachment that can be used with hotsticks. Replacement brushes are available.

CAT. NO.	DESCRIPTION in. (mm)	WEIGHT EA. lbs. (kgs)
4108	Universal Tubular	1.3 (0.6)
4110	5" (127) Tubular	0.4 (0.2)
4111	Universal "V" Line Cleaner	1 (0.5)
4112	"V" Type handle w/ brushes	1.2 (0.6)
4113	"V" Type carton of 10 replacement brushes	3 (1.4)
4337	2.5" (63.5) Tubular	0.2 (0.1)

## GROUND ELBOW & ACCESSORIES

### 200 AMP & 600 AMP

The **200 AMP GROUND ELBOW WITH CONNECTIONS** may be used on single phase or three phase installations. Grounding sets come complete with extra flexible cable and connections. Elbows are rated for a maximum fault current of 10,000 amps for 10 cycles. All the clamps come with grip-all eyes for use with a clampstick.

The **200 AMP AND 600 AMP ELBOW CONNECTOR TOOLS** are designed to fit all of the 15 kV and 25 kV rated loadbreak and non-loadbreak elbows. The jaws are contoured to provide a positive grip and not interfere with the contact interface area, allowing the elbow to operate properly while connecting or disconnecting.

The **INSULATED ELBOW REMOVER** is used by inserting a hook in the loop on the back of any elbow while applying a hammering action. This tool can also be used to seal elbows when installing them. Other lengths may be available upon request.

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
<b>200 AMP GROUND ELBOW WITH CONNECTIONS DEAD BREAK</b>		
764015GE	15 kV	1 (0.45)

<b>200 AMP GROUND ELBOW WITH CONNECTIONS TLOAD BREAK</b>		
764150015LGE	15 kV	1 (0.45)
764150025LGE	25/35 kV Small Interface	2 (0.91)

<b>200 AMP ELBOW CONNECTOR TOOL</b>		
9202Q	Quick Change Fitting	2 (0.91)
9202GA	Grip-All Fitting	2 (0.91)

<b>600 AMP ELBOW CONNECTOR TOOL</b>		
9206Q	Quick Change	2 (0.91)
9206U	Universal	2 (0.91)
9206GA	Grip-All	2 (0.91)
9206GAS	With Insert Pair for 200 AMP Elbows	2 (0.91)
9202I	Insert Pair	8 (0.22)

<b>INSULATED ELBOW REMOVER</b>		
9206HIP	6' (1.83 m) with 9202HQ	11 (4.99)
9208HIP	8' (2.44 m) with 9202HQ	12 (5.44)

<b>PARTS</b>		
9202HQ	Elbow Remover Head with Quick Change	2 (0.91)
12524HH	Insulated Stick for 2' (0.61 m) Remover	2 (0.91)
12548HH	Insulated Stick for 4' (1.22 m) Remover	3 (1.36)



764150015LGE



9206GAS



9202HQ



The 1712 and 1725 grounding stud series are used for grounding when the fault duty on the 600 amp Deadbreak elbow/ "T" body exceeds the rating of a 200 amp grounding elbow, as rated by IEEE 386 at 10kA for 10 cycles. Grounding studs consist of a 10" conductor stud with male or female threads for replacing 200 amp bushing wells and/or insulating plugs and a ground clamp bar for use with regular grounding jumper assemblies. After the cable has been proven de-energized, the stud is installed and a ground is applied.

The **1725001** grounding stud is made of 7/8" diameter copper with a 5/8-11 female thread on one end and a 1" (2.5 cm) hex drive on the other end. This stud is fitted with a tapered guide and a 3/8" diameter copper cross bar perch used for installing the ground. A socket drive is used for installation. For application, use catalog number 5900CS captured socket.

The **17250003**, **17250004** and **17250005** are steel grounding plugs and studs with one 5/8" diameter perch. The perch has a sturdy lip to ensure clamp contact during faults. These models are supplied with grip-all attachments for application with insulated clampstick tools and connectors. These studs are used for grounding equipment such as non load-break connectors or power distribution connectors.

The **1735** grounding stud is made of 7/8" diameter copper with a 5/8-11 female thread on one end and a 1" (2.5 cm) hex drive on the other end for application with a socket drive. The cross bar perch is 3/4" diameter copper, providing heavy duty service. This ground plug also comes equipped with a tapered guide and the yellow protective cap.

CAT. NO.	DESCRIPTION	THREADS	MATERIAL (Stud)	ASTM F855		WEIGHT lbs. (kgs)
				GRADE	FAULT DUTY 15 Cycles	
<b>UNDERGROUND GROUNDING STUDS</b>						
<b>1725001</b>	Copper Electrode, Female, Hex Drive, w/Guide	5/8-11 (F)	Cu	1	17 kA	2.2 (1.0)
<b>17250003</b>	Steel Electrode, Male, Grip-All, w/Guide	5/8-11 (M)	Steel	3	27 kA	2.0 (0.9)
<b>17250004</b>	Steel Electrode, Female, Grip-All, w/Guide	5/8-11 (F)	Steel	3	27 kA	2.0 (0.9)
<b>17250005</b>	Steel Electrode, Male, Grip-All	3/4-10 (M)	Steel	3	27 kA	1.8 (0.8)
<b>1735</b>	Copper Electrode, Female, Hex Drive, w/Guide	5/8-11 (F)	Cu	4	35 kA	3.5 (1.6)
<b>5900CS</b>	Captured Socket for 1725001 and 1735	-	-	-	-	-

## UNDERGROUND TOOLS & GROUND ADAPTER DEVICE KIT

The **PADMOUNT SWITCH HOOK** is designed to operate the secondary switch on a padmount transformer. Also used as a standard switch hook for cutouts. Weight - 1 lbs. (0.45 kgs).

The **UNDERGROUND SPANNER WRENCH** is designed for installing and removing the connector bushing, and reducing bushing inserts. Can be used when the conductor is de-energized, but not grounded. The tool is used one way for installation, and turned over for removal. A universal toggle and spring is used with this tool and should be ordered separately (5900Q). Weight -1 lbs. (0.45 kgs).

The **PLUG INSTALLING TOOL** is used to install or remove 600 amp reducing plugs. Weight:2 lbs. (0.91 kgs).

The **GROUND ADAPTER DEVICE KIT** enables application of personal grounds up to a 600 amp separable pre-molded component system when used with a clampstick.



CAT. NO.	DESCRIPTION
<b>PADMOUNT SWITCH HOOK</b>	
190UGQ	With Quick Change
190UGU	With Universal
<b>UNDERGROUND SPANNER WRENCH</b>	
1720	For 600 AMP Connector
<b>PLUG INSTALLING TOOL</b>	
172300	1/2" (1.3 cm) Female Square Drive
172300Q	Quick Change



CAT. NO.	DESCRIPTION	QTY	WEIGHT lbs. (kgs)
<b>GROUND ADAPTER DEVICE KIT - NON-LOAD BREAK</b>			
76174459	Ground Adapter Device Kit with Bag	1	15 (6.8)

**EACH SET INCLUDES THE FOLLOWING:**

44C	Ratchet Wrench with Ball and Ring	1	2 (0.91)
5900Q	Universal Toggle and Spring	1	1 (0.45)
5900CS	Captured Socket with Friction Balls	1	8 oz (0.22 kgs)
9206GAS	Elbow Connector Tool with Inserts	1	2.5 (1.1)
1725001	Ground Stud	3	2.5 (1.1)
B1715	Protective Bag with Zipper	1	1 (0.45)

The **HYDRAULIC CABLE SPIKE** is designed to verify that underground cable, up to 1000 MCM, is de-energized before cutting, repairing, splicing or replacing.

The cable spike, a solid brass body with a stainless steel piercing tip, is fitted to hydraulic compression tools so that the cable can be accurately spiked from a safe distance. An anodized aluminum insert is included to position the cable precisely.

The **CABLE PENETRATING GROUND CLAMP** is designed to be used either as a tool for “spiking” jacketed cable or as a part of a grounding assembly used to bond both ends of an opened cable. The 7/8” long plated steel point is inserted into the eye screw making a low resistant one piece spear. If one point becomes blunted it may be sharpened or replaced with a new spear. Clamps are aluminum body with either smooth or serrated upper jaws. The hard aluminum serrated insert makes optimum contact with the stranded neutral shield.

*Adapter fits the following tools:*

- Huskie EP610H
- Burndy Y46
- Brock 13-H



**WARNING: ELECTRIC SHOCK HAZARD**

**THIS TOOL IS NOT INSULATED. USE ONLY CERTIFIED, NON-CONDUCTIVE HOSES, DIELECTRIC FLUIDS, AND PROPER PERSONAL PROTECTIVE EQUIPMENT WHEN USING THIS UNIT. FAILURE TO DO SO COULD RESULT IN SEVERE INJURY OR DEATH.**

CAT. NO.	CABLE LENGTH ft (m)	DESCRIPTION SPIKING TOOL & GROUNDING ASSEMBLY:	WEIGHT EA. lbs. (kgs)
24320	6 (1.8)	Cable Spiking Tool & Insert 4388 C Clamp	9.5 (4.3)
24321	8 (2.4)	2139 4/0 Cu Cable 2025 4/0 Cu Ferrules (Pair)	11.2 (5.1)
24322	10 (3)	616 Bag US Patent # 544 7450	12.9 (5.86)
RPT1	-	Replacement Piercing Tip	1 oz (28 g)

**CABLE PENETRATING GROUND CLAMP - ACME THREAD - POINTED LOWER JAW**

2607	-	Aluminum 1.5” Opening, Class B, Serrated Jaw	1.7 (.8)
20867	-	Aluminum 2.40” Opening, Class B, Serrated Jaw	2.2 (1)
4290	-	Aluminum 2.40” Opening, Class A, Smooth Jaw	2.1 (1)



# HYDRAULIC GROUND, BLADE, & CABLE SPIKE CLAMPS



1715EPP



17150066

CAT. NO.	DESCRIPTION	PUMP MDL / P.S.I.	CABLE ASSEMBLY CABLE	ASTM FAULT / DUTY CYCLES / GRADE	WEIGHT lbs. (kgs)
<b>HYDRAULIC GROUND SPIKE CLAMPS: CLAMP CAT. NO. 760001E, SPIKE DEPTH 1 5/8", CONDUCTOR MIN. 1" - MAX. 3"</b>					
1715EPP	Spike Point w/ Eye Screw	1715PE / 1200	1/0 Clear	14.5 kA / 15 / 1	28 (12.7)
17150060EPP	Spike Point w/ Eye-T Screw	1715PE / 1200	1/0 Clear	14.5 kA / 15 / 1	28 (12.7)
17150060PFP	Spike Point w/ Eye-T Screw	1715PE / 1200	1/0 Clear	14.5 kA / 15 / 1	32 (14.5)

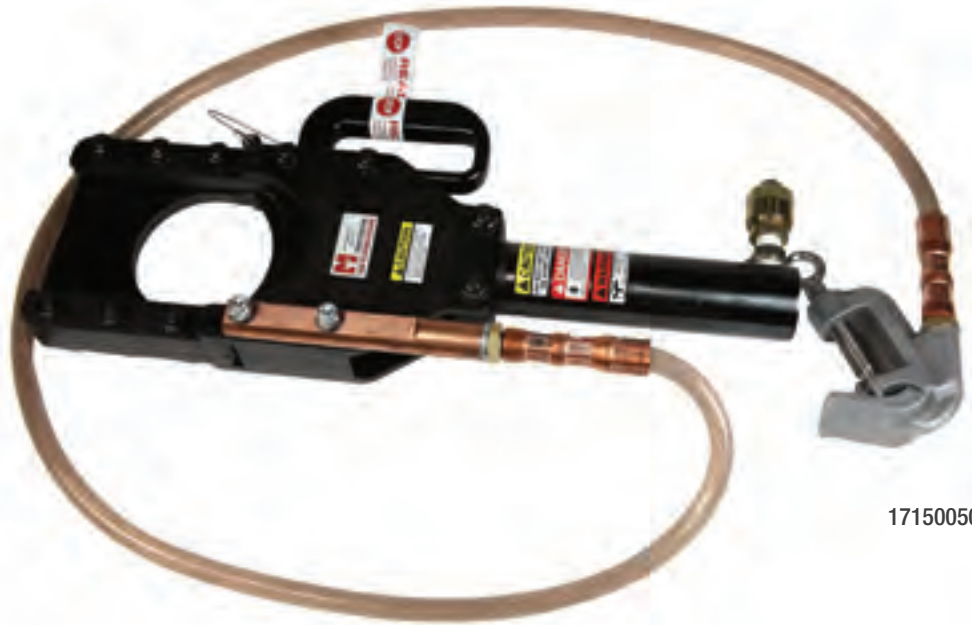
CAT. NO.	PUMP MDL / P.S.I.	SPIKE DEPTH IN. (CM)	CONDUCTOR MAX CYCLES / GRADE	CABLE ASSEMBLY CABLE	ASTM FAULT / DUTY	WEIGHT lbs. (kgs)
<b>HYDRAULIC BLADE SPIKE CLAMPS: SPIKE BLADE W/ EYE SCREW, CLAMP CAT. NO. 760001E</b>						
17150063EPP	1715EP25 / 2500	3"	2 1/4 (5.7)	1/0 Clear	14.5 kA / 15 / 1	30 (13.6)
17150063PFP	1715PF25 / 2500	3"	2 1/4 (5.7)	1/0 Clear	14.5 kA / 15 / 1	34 (15.4)
17150066	1715P392 / 10000	6"	4 1/2 (10.8)	1/0 Clear	14.5 kA / 15 / 1	85 (38.6)

NOTE: Suffix EPP = Enerpac Pump Suffix PFP = Porter Ferguson Pump

# HAND OPERATED GROUND SPIKE & HYDRAULIC CUTTER SPIKE



1712GA



17150050

CAT. NO.	DESCRIPTION	CABLE ASSEMBLY CABLE / CLAMP CAT. NO.	ASTM FAULT / DUTY CYCLES / GRADE	WEIGHT lbs. (kgs)
<b>HAND OPERATED GROUND SPIKE: SPIKE DEPTH 1 3/4", CONDUCTOR MIN. 1" - MAX. 3 1/2"</b>				
1712CS	3' FG Hndl, Toggle /GA	1/0 Clear / 760001E	14.5 kA / 15 / 1	15 (6.8)
1712U	Spike Point w/U	1/0 Clear / 760001E	14.5 kA / 15 / 1	10 (4.5)
1712GA	Spike Point w/GA	1/0 Clear / 760001E	14.5 kA / 15 / 1	10 (4.5)

CAT. NO.	DESCRIPTION	PUMP MDL / P.S.I.	CABLE ASSEMBLY CABLE CYCLES / GRADE	ASTM FAULT / DUTY	WEIGHT lbs. (kgs)
<b>HYDRAULIC CUTTER SPIKE: CLAMP CAT. NO. 760001E, CONDUCTOR MIN. 0" - MAX. 3 1/2"</b>					
17150050	Huskie Head	N/A / N/A	#2 Clear	14.5 kA / 15 / 1	23 (10.5)
17150050WPH	Huskie Head	1715P392 / 10,000	#2 Clear	14.5 kA / 15 / 1	52 (23.6)

# ACCESSORIES FOR UNDERGROUND SPIKE TOOLS

CAT. NO.	DESCRIPTION
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## SPIKES, BLADES AND TOOL HEADS

1710E	Spike Point Complete for 1710
1712E	Carbide Spike Point Only
1715E	Spike Point Complete for 1715
1715GS	Ground Shaft Complete for 1715 (Includes Shaft and Spike Point)
171550SP100A	Huskie Cutter Head Only



## HYDRAULIC PUMP ASSEMBLIES AND PUMPS

1715PE	Enerpac Pump w/ Fittings, 1200 psi
1715P142	Enerpac Pump Only, 1200 psi
1715PE25	Enerpac Pump w/ Fittings, 2500 psi
1715PE14225	Enerpac Pump Only, 2500 psi
1715PE100	Enerpac Pump w/ Fittings, 10000 psi
1715P392	Enerpac Pump Only, 10000 psi
1715PF	Porter Ferguson Pump w/ Fittings, 1200 psi
1715SM0033	Porter Ferguson Pump Only, 1200 psi
1715PFSD	Porter Ferguson Pump w/ 1/4" Fittings, 1200 psi
1715PF25	Porter Ferguson Pump w/ Fittings, 2500 psi
1715SM003325	Porter Ferguson Pump Only, 2500 psi



## HYDRAULIC HOSE ASSEMBLIES AND HOSES

1715H	30' Non-conductive Hose w/ Fittings, 3000 psi
1715H1	30' Hose Only, 3000 psi
1715HSD	30' Non-conductive Hose w/ 1/4" Fittings, 3000 psi
1715HSD1	30' Hose Only, 3000 psi

1715PF

## HYDRAULIC RAM ASSEMBLIES AND RAMS

1715R	Enerpac Ram w/ Fittings, 1 5/8" Stroke
1715RCH121	Enerpac Ram Only, 1 5/8" Stroke
1715RSD	Enerpac Ram w/ 1/4" Fittings, 1 5/8" Stroke
171561RCH123	Enerpac Ram Only, 3" Stroke
17150066R	Enerpac Ram w/ Fittings, 6" Stroke
1715RCH306	Enerpac Ram Only, 6" Stroke



1715H

## PROTECTIVE BAGS

B1710	Bag for 1710: 52" x 15" Yellow Vinyl Strap Tie Bag, 4 Tool Compartments, Outer Pocket
B1715	Bag for 1712, 1715, 17150060: 20" x 14" x 5" Yellow Vinyl, Zipper, Outer Pocket, Straps
B17150050	Bag for 17150050, 17150063: 26" x 12" x 8" Yellow Vinyl, Zipper, Outer Pocket, Straps
1370BF1	Storage Box for 17150066: 44" x 12" x 15" Wooden, Hinged, Latched, Forklift Stringers



B1715

# HOTSTICKS & TOOLS



# HOTSTICKS & TOOLS

## FIBERGLASS HOTSTICKS STANDARD SPECIFICATIONS

There are a variety of Fiberglass Reinforced Plastic (FRP) constructions used for hotsticks. Included are foam filled tubular sticks used for all products requiring solid construction. All Salisbury fiberglass sticks meet ASTM F711 Standard Specifications for FRP and tubes used in live line tools and IEC 855.

Foam filled hotsticks are manufactured using the pultrusion process. This method incorporates fiberglass reinforcement in a resin matrix which creates a moisture resistant laminate with excellent electrical and mechanical properties.

Hotstick production is 100% electrically proof tested. Hotstick blanks must pass a test of 100 kV/12" (305 mm) for 5 minutes without detectable heating prior to being accepted. Hot Stick blanks conform with ASTM F711 requirements.



Foam Filled Hot Stick

## FAQ

**Q:** Are rescue sticks required to be periodically electrically tested?

**A:** Yes, see OSHA 1910.269(j) for specific testing requirements.

### LIVE LINE WORK MINIMUM APPROACH DISTANCE

NOMINAL VOLTAGE KV	EXPOSURE DISTANCE ft.-in (m)	
	PHASE TO GROUND	PHASE TO PHASE
.05 to 1	AVOID CONTACT	AVOID CONTACT
1.1 to 15	2-1 (.64)	2-2 (.66)
15.1 to 36	2-4 (.72)	2-7 (.77)
36.1 to 46	2-7 (.77)	2-10 (.85)
46.1 to 72.5	3-0 (.9)	3-6 (1.05)
72.6 to 121	3-2 (.95)	4-3 (1.29)
138 to 145	3-7 (1.09)	4-11 (1.5)
161 to 169	4-0 (1.22)	5-8 (1.71)
230 to 242	5-3 (1.59)	7-6 (2.27)
345 to 362	8-6 (2.59)	12.6 (3.8)
500 to 550	11-3 (3.42)	18-1 (5.5)
765 to 800	14-11 (4.53)	26-0 (7.91)

- These distances take into consideration the highest switch surge an employee will be exposed to on any system with air as the insulating medium and the maximum voltage shown.
- The clear live-line total distances shall equal or exceed the values for the indicated voltage ranges.



Side Opening Hook



9840 Splined  
Universal Head

External Rod Clampstick

- TOUGH THERMOPLASTIC HEAD FERRULE
- EZ GRIP PLASTIC HAND GRIP
- WIDE OPENING 15/16" (23.8 MM)
- STAINLESS STEEL HOOK
- HEAVY DUTY RUBBER END CAP

**EXTERNAL ROD CLAMPSTICKS** are constructed of closed cell foam-filled tubular fiberglass in accordance with ASTM standard F711. The hook's operating rod, made of solid 3/8" (9.5 mm) dia. fiberglass, is mounted on the exterior of the tool so that it can be easily wiped down prior to use.

These Clampsticks meet ASTM F1825 Standards.

CAT. NO.	LENGTH		WEIGHT EA. lbs. (kgs)
	feet	meters	
<b>EXTERNAL ROD CLAMPSTICK</b>			
4007*	4' 8"	1.32	4.2 (1.9)
4008*	5' 8"	1.62	4.6 (2.1)
4009*	6' 8"	1.93	5.2 (2.4)
4010*	8' 8"	2.54	6.2 (2.8)
4011*	10' 8"	3.15	7.0 (3.2)
4012*	12' 8"	3.76	7.7 (3.5)
4013*	14' 8"	4.37	9.4 (4.3)

**EXTERNAL ROD CLAMPSTICK - PLAIN CAP**

8106C	6'6"	1.98	5 (2.27)
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\*Add a "9864" suffix for a Switch Stick Head or a "9840" suffix for a Splined Universal Head. Clamp sticks may be ordered with these fittings attached to the end by adding the appropriate suffix to the catalog number.

# UNIVERSAL SWITCH STICKS

One, two and three section hotsticks have a standard splined universal head. 1.25" dia. switch sticks are supplied with a #9971 Prong. A Heavy Duty Disconnect Prong #9969 is supplied on all others.



9969 Prong



9971 Prong



Universal Switch Stick

CAT. NO.	DIMENSIONS: DIA. X LENGTH		WEIGHT EA. lbs. (kgs)
	in x ft.	mm x m	
<b>ONE SECTION</b>			
4213	1.25 x 4	31.7 x 1.2	2.6 (1.2)
4214	1.25 x 6	31.7 x 1.8	3.4 (1.5)
4215	1.25 x 8	31.7 x 2.4	4.1 (1.9)
4216	1.25 x 10	31.7 x 3	4.9 (2.2)
4217	1.25 x 12	31.7 x 3.6	5.6 (2.5)
4218	1.25 x 14	31.7 x 4.3	6.4 (2.9)
4219	1.5 x 8	38.1 x 2.4	5.4 (2.5)
4220	1.5 x 10	38.1 x 3	6.5 (3)
4221	1.5 x 12	38.1 x 3.6	7.5 (3.4)
4222	1.5 x 14	38.1 x 4.3	8.6 (3.9)
4223	1.5 x 16	38.1 x 4.9	9.8 (4.3)
4225	1.5 x 20	38.1 x 6	11.7 (5.3)

## TWO SECTION

	OAL Length		Top		Bottom		Weight	
	ft.	m	in. x ft.	mm x m	in. x ft.	mm x m	lbs.	(kgs)
4036	8	2.4	1.25 x 4	31.7 x 1.2	1.25 x 4	31.7 x 1.2	4.2	(1.9)
4037	10	3	1.25 x 5	31.7 x 1.5	1.25 x 5	31.7 x 1.5	5.2	(2.2)
4038	12	3.6	1.25 x 6	31.7 x 1.8	1.5 x 6	38.1 x 1.8	6.9	(3.1)
4039	14	4.3	1.25 x 6	31.7 x 1.8	1.5 x 8	38.1 x 2.4	7.9	(3.1)
4040	16	4.9	1.25 x 8	31.7 x 2.4	1.5 x 8	38.1 x 2.4	8.6	(3.9)
4041	18	5.5	1.25 x 8	31.7 x 2.4	1.5 x 10	38.1 x 3	9.6	(4.4)
4042	20	6	1.25 x 10	31.7 x 3	1.5 x 10	38.1 x 3	10.4	(4.7)

## THREE SECTION

	OAL Length		Top		Bottom		Weight	
	ft.	m	in. x ft.	mm x m	in. x ft.	mm x m	lbs.	(kgs)
4043	12	3.6	1.25 x 4	31.7 x 1.2	1.5 x 4	38.1 x 1.2	7.7	(3.5)
4044	15	4.6	1.25 x 5	31.7 x 1.5	1.5 x 5	38.1 x 1.5	9.1	(4.1)
4045	18	5.5	1.25 x 6	31.7 x 1.8	1.5 x 6	38.1 x 1.8	10.5	(4.7)
4046	20	6	1.25 x 8	31.7 x 2.4	1.5 x 6	38.1 x 1.8	16.5	(7.5)

## HEAD ONLY

9840	1.25	31.7	Universal Head	0.2 (0.1)
9841	1.5	38.1	Universal Head	0.3 (0.1)



FRP Splices with Button

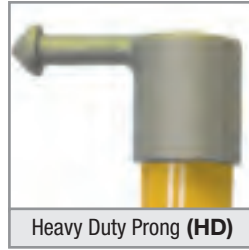
# FIBERGLASS HOT SWITCH STICKS



Fiberglass Hot Switch Stick



Standard Prong (ST)



Heavy Duty Prong (HD)

**SWITCH STICKS** use closed cell foam filled tubular fiberglass made in accordance with ASTM Standard F711. Both the standard head and the heavy duty prong disconnect are made of durable high strength aluminum bronze alloy.

CAT. NO.		DIMENSIONS: DIA. X LENGTH		WEIGHT EA.	
HD	ST	in x ft.	mm x m	lbs.	(kgs)
<b>ONE SECTION</b>					
9950	9933	1.25 x 4	31.7 x 1.2	2.1	(1)
9951	9934	1.25 x 6	31.7 x 1.8	2.9	(1.3)
9952	9935	1.25 x 8	31.7 x 2.4	3.6	(1.6)
9953	9936	1.25 x 10	31.7 x 3	4.4	(2)
9954	9937	1.25 x 12	31.7 x 3.6	5.1	(2.3)
9955	9938	1.25 x 14	31.7 x 4.3	5.9	(2.7)
9956	9939	1.5 x 8	38.1 x 2.4	5	(2.3)
9957	9940	1.5 x 10	38.1 x 3	6	(2.7)
9958	9941	1.5 x 12	38.1 x 3.6	7	(3.2)
9959	9942	1.5 x 14	38.1 x 4.3	8.1	(3.7)
9960	9943	1.5 x 16	38.1 x 4.9	9.1	(4.1)
9961	9944	1.5 x 18	38.1 x 5.5	10.2	(4.6)
9962	9945	1.5 x 20	38.1 x 6	11.2	(5.1)

## TWO SECTION

		OAL Length		Top		Bottom		Weight lbs. (kgs)
		ft.	m	in. x ft.	mm x m	in. x ft.	mm x m	
4024	-	8	2.4	1.25 x 4	31.7 x 1.2	1.25 x 4	31.7 x 1.2	3.8 (1.7)
4025	-	10	3	1.25 x 5	31.7 x 1.5	1.25 x 5	31.7 x 1.5	4.6 (2.1)
4026	4016	12	3.6	1.25 x 6	31.7 x 1.8	1.25 x 6	31.7 x 1.8	5.3 (2.4)
-	4017	14	4.3	1.25 x 7	31.7 x 2.1	1.25 x 7	31.7 x 2.1	6.1 (2.7)
4028	4018	16	4.9	1.25 x 8	31.7 x 2.4	1.5 x 8	38.1 x 2.4	8 (3.6)
4029	-	18	5.5	1.25 x 8	31.7 x 2.4	1.5 x 10	38.1 x 3	9.5 (4.3)
4030	-	20	6	1.25 x 10	31.7 x 3	1.5 x 10	38.1 x 3	10.3 (4.6)

## THREE SECTION

		OAL Length		Top		Bottom		Weight lbs. (kgs)
		ft.	m	in. x ft.	mm x m	in. x ft.	mm x m	
4033	-	18	5.5	1.25 x 6	31.7 x 1.8	1.5 x 6	38.1 x 1.8	10.4 (4.7)
4034	4035	20	2	1.25 x 8	31.7 x 2.4	1.5 x 6	38.1 x 1.8	11.1 (5)

## HEAD ONLY

-	9864	-	-	1.25	31.7	Universal Head		0.4 (0.2)
9861	-	-	-	1.5	38.1	Universal Head		0.5 (0.2)



# UNIVERSAL SWITCH STICKS & ACCESSORIES

## DOUBLE ENDED & TIE HEADS

**FRP SLEEVE SPLICES** are fiberglass reinforced plastic with spring loaded push buttons. They sectionize long sticks for easy storage. For splice stick assemblies other than those listed in the catalog consult the factory for quotations.

**SPLICE GUARDS** reduce the damage to the end of spliced sticks when working with only the top sections.

These foam filled FRP Hot Sticks are manufactured using a pultrusion process that results in a product with extremely high electrical and mechanical qualities.



4182 Cap Splice Guard



FRP Splices with Button

CAT. NO.	DIMENSIONS		WEIGHT EA. lbs. (kgs)
	in.	mm	
<b>FRP SLEEVE SPLICES</b>			
9898	1.25 to 1.25	31.7 to 31.7	0.4 (0.2)
9897	1.5 to 1.25	38.1 to 31.7	0.8 (0.4)
9899	1.5 to 1.5	38.1 to 38.1	0.9 (0.4)

<b>SPLICE GUARD CAP</b>			
4182	1.25 I.D.	31.7 I.D.	0.2 (0.10)

CAT. NO.	DIMENSIONS: DIA. X LENGTH		WEIGHT EA. lbs. (kgs)
	in. x ft.	mm x m	
<b>DOUBLE ENDED UNIVERSAL</b>			
4230	1.25 x 6	31.7 x 1.8	3.3 (1.5)
4231	1.25 x 8	31.7 x 2.4	4 (1.8)
4232	1.25 x 10	31.7 x 3	4.8 (2.2)
4233	1.25 x 12	31.7 x 3.6	5.5 (2.5)
4234	1.25 x 14	31.7 x 4.3	6.3 (2.8)

<b>UNIVERSAL W/ ROTARY PRONG OR BLADE</b>				
4084	Rotary Prong	1.25 x 6	31.7 x 1.8	3.8 (1.7)
4085	Rotary Prong	1.25 x 8	31.7 x 2.4	4.5 (2)

<b>UNIVERSAL W/ DOUBLE PRONG</b>				
4088		1.25 x 6	31.7 x 1.8	3.8 (1.7)
4089		1.25 x 8	31.7 x 2.4	4.5 (2)



4084 Rotary Prong



4088 Double Prong Head



Double Ended Universal Switch Stick



Quick Change Head

**FIBERGLASS HANDLES** are manufactured in accordance with the following specifications: ASTM F711, OSHA 1910.269 (j), and OSHA 1926.951(d). All handles are made from pultruded, smooth, foam-filled fiberglass. Safety yellow is the primary fiberglass color. It is recommended that handles be wiped clean with a silicote cloth before and after every use.

The most commonly used combinations are shown below. Other lengths are available. Bags are not included but are available.

The **8900** rain guard is a yellow molded EPDM shield held in place with a hose clamp. Rain guards fit over 1-1/4" to 1-1/2" (3.2 cm to 3.8 cm) diameter handles and provide a dry handle area if the sticks are used in the rain.

CAT. NO.	DIAMETER X OVERALL LENGTH	WEIGHT lbs. (kgs)
<b>CAP &amp; THREADED FERRULE</b>		
10078CH	1" x 6'6" (2.5 cm x 1.98 m)	2 (0.91)
10096CH	1" x 8' (2.5 cm x 2.44 m)	2 (0.91)
12578CH	1 1/4" x 6'6" (3.2 cm x 1.98 m)	2 (0.91)
12596CH	1 1/4" x 8' (3.2 cm x 2.44 m)	3 (1.36)
15078CH	1 1/2" x 6'6" (3.8 cm x 1.98 m)	5 (2.27)
15096CH	1 1/2" x 8' (3.8 cm x 2.44 m)	6 (2.72)
<b>TWO THREADED FERRULES</b>		
10078HH	1" x 6'6" (2.5 cm x 1.98 m)	2 (0.91)
10096HH	1" x 8' (2.5 cm x 2.44 m)	2 (0.91)
12578HH	1 1/4" x 6'6" (3.2 cm x 1.98 m)	3 (1.36)
12596HH	1 1/4" x 8' (3.2 cm x 2.44 m)	4 (1.81)
15078HH	1 1/2" x 6'6" (3.8 cm x 1.98 m)	3 (1.36)
15096HH	1 1/2" x 8' (3.8 cm x 2.44 m)	6 (2.72)
150120HH	1 1/2" x 10' (3.8 cm x 3.05 m)	6 (2.72)
<b>TWO INSULATED HEX FERRULES</b>		
12578HHM	1 1/4" x 6'6" (3.2 cm x 1.98 m)	4 (1.81)
12596HHM	1 1/4" x 8' (3.2 cm x 2.44 m)	4 (1.81)
<b>CAP &amp; UNIVERSAL FERRULE</b>		
10078CU	1" x 6'6" (2.5 cm x 1.98 m)	2 (0.91)
12578CU	1 1/4" x 6'6" (3.2 cm x 1.98 m)	2 (0.91)
15096CU	1 1/2" x 8' (3.8 cm x 2.44 m)	6 (2.72)
<b>RAIN GUARD</b>		
8900	Rain Guard w/ Hose Clamp	0.2 (0.1)

# TOGGLE HANDLE FIBERGLASS CLAMPSTICKS

## MAKE THE JOB EASIER

*Specialized Toggle Handle Increases Leverage.*

The toggle handle fiberglass hot switch sticks and clampsticks include a bendable handle that provides increased leverage when needed.

**FIBERGLASS HOT SWITCH STICKS** are manufactured in accordance with the following specifications: ASTM F711, OSHA 1910.269(j), and OSHA 1926.951(d). All handles are made from pultruded, smooth, foam-filled fiberglass. Safety yellow is the primary fiberglass color. It is recommended that handles be wiped clean with a silicote cloth before and after every use.

All **FIBERGLASS CLAMPSTICKS** are fixed length external rod fiberglass clampsticks which maintain maximum dielectric strength. A full open side hook provides an unobstructed view of the hook. The molded, insulated head provides a larger opening. The precision cast slide gives complete control and an extra firm grip. The hook release mechanism is easy to operate and the extended length spear provides an easy method of locating the eye of hot taps that are other-wise hard to locate.

**All fiberglass used is tested at 50 kV / 6 inches (100 kV / foot) and meets the dielectric leakage requirements of ASTM F711.**

Other lengths available upon request. Bag not included.

**TOGGLE MAXIMUM TORQUE RATING: 60 FOOT POUNDS.**

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
<b>TOGGLE HANDLE &amp; THREADED FERRULE</b>		
12578HE	1 1/4" x 6'6" (3.2 cm x 1.98 m)	4 (1.81)
12596HE	1 1/4" x 8' (3.2 cm x 2.44 m)	4 (1.81)
12548HE	1 1/4" x 4' (3.2 cm x 1.22 m)	4 (1.81)
<b>TOGGLE HANDLE &amp; UNIVERSAL FERRULE</b>		
12578UE	1 1/4" x 6'6" (3.2 cm x 1.98 m)	4 (1.81)
12596UE	1 1/4" x 8' (3.2 cm x 2.44 m)	4 (1.81)
12548UE	1 1/4" x 4' (3.2 cm x 1.22 m)	4 (1.81)
<b>TOGGLE HANDLE &amp; INSULATED HEX FERRULE</b>		
12578HEM	1 1/4" x 6'6" (3.2 cm x 1.98 m)	4 (1.81)
12596HEM	1 1/4" x 8' (3.2 cm x 2.44 m)	4 (1.81)
<b>TOGGLE HANDLE &amp; CLAMPSTICK</b>		
8104E	4'6" (1.37m) OAL Toggle Handle Fiberglass Clampstick	4.5 (2.04)
8106E	6'6" (1.98m) OAL Toggle Handle Fiberglass Clampstick	5 (2.27)
8108E	8'6" (2.59m) OAL Toggle Handle Fiberglass Clampstick	6.5 (2.95)





1CQ



2CQ



4DQ

The **MECHANICAL HAND STICK** serves both as a hand and as pliers so that any serve-up or type of tie can be made or removed from the line. Very little effort is required to serve a wire taut and as perfectly as when hand and pliers are used. It is possible to roll the wire into place around the conductor, making a tight connection easily, instead of jerking and pulling.

The **WIRE CLAMP STICK** has two fiberglass handles: the operating handle is 1" (2.5 cm) in diameter and the stationary handle is 1 1/4" (3.2 cm) in diameter. The wire clamp stick is used to hold tie wires in place, hold jumper wires while taps are being made or removed, and to hold wires when cutting and removing.

Use the **ALLIGATOR STICK** to install and remove single sheave or double blocks in the top of gin poles and to install circuit breakers, line hooks and strain breakers on live lines. With the alligator stick, you can remove arm slings on cross arms and hook blocks in arm slings and come-alongs when changing dead ends.

CAT. NO.	DESCRIPTION	HANDLE LENGTH	WEIGHT lbs. (kgs)
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**MECHANICAL HAND STICK, FIBERGLASS HANDLE DIAMETER: 1-1/4" (3.2 CM)**

1FGQ	Quick Change	6'6" (1.98m)	4 (1.81)
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**MECHANICAL HAND HEAD ONLY**

1CQ	Mechanical Hand w/ Quick Change	-	1 (0.45)
1CU	Mechanical Hand w/ Universal	-	1 (0.45)

**WIRE CLAMP STICK**

2FGQ	Quick Change	6'6" (1.98m)	6 (2.72)
201FGQ	Quick Change	8' (2.43 m)	9 (4.08)
201FGU	Universal	8' (2.43 m)	9 (4.08)
201CFGQ	Top Hook and Quick Change	8' (2.43 m)	9 (4.08)

**WIRE CLAMP HEAD ONLY**

2CQ	Wire with Quick Change	-	3 (1.36)
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**ALLIGATOR STICK, FIBERGLASS HANDLE DIAMETER: 1-1/4" (3.2 CM)**

4FGQ	Quick Change	6'6" (1.98m)	4 (1.81)
4FGU	Universal	6'6" (1.98m)	4 (1.81)

**ALLIGATOR HEAD ONLY**

4DQ	Alligator with Quick Change	-	1 (0.45)
4DU	Alligator with Universal	-	1 (0.45)

## SPECIALTY HOT SWITCH STICKS

The **PIGTAIL STICK** is designed to lift and guide live lines and maintains clearances while working on poles. The pigtail stick is used to change pin type insulators and ridge pin insulators when the conductor is light enough for one person to lift. Units come standard with 7/8" (2.2 cm) hook; also available with 1-1/2" (3.8 cm) and 2" (5.1 cm) hooks. Other lengths available. Bag not included. Fiberglass handle diameter: 1-1/2" (3.8 cm).

The **STRANDED WIRE HOLDING STICK** has two 1" (2.5 cm) diameter fiberglass handles, holds conductors or wires during operations. The 121 Series has 3/4" (1.9 cm) wide jaws that open to 9/16" (1.4 cm), and the 122 Series, has 2" (5.1 cm) wide jaws that open to 1-1/2" (3.8 cm). Other lengths available. Bag not included.

The **CABLE HANDLER** has a 1-1/4" (3.2 cm) fiberglass handle. Used to handle, lift, or move energized cables. Other lengths available.

CAT. NO.	DESCRIPTION	HANDLE LENGTH	Weight lbs. (kgs)
<b>PIGTAIL STICK</b>			
5FGQ	Quick Change	6'6" (1.98 m)	6 (2.72)
501FGQ	Quick Change	8' (2.43 m)	7 (3.18)
501FGU	Universal	8' (2.43 m)	7 (3.18)

### PIGTAIL HEAD ONLY

5C2Q	Pigtail w/ Quick Change	7/8" (2.2 cm)	1 (0.45)
5C2U	Pigtail w/ Universal	7/8" (2.2 cm)	1 (0.45)
5C3Q	Pigtail w/ Quick Change	1 1/2" (3.8 cm)	1 (0.45)
5C3U	Pigtail w/ Universal	1 1/2" (3.8 cm)	1 (0.45)
5C4Q	Pigtail w/ Quick Change	2" (5.1 cm)	1 (0.45)
5C4U	Pigtail w/ Universal	2" (5.1 cm)	1 (0.45)

### STRANDED WIRE HOLDING STICK

121FGQ	Quick Change	6'6" (1.98 m)	6 (2.72)
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### STRANDED WIRE HEAD ONLY

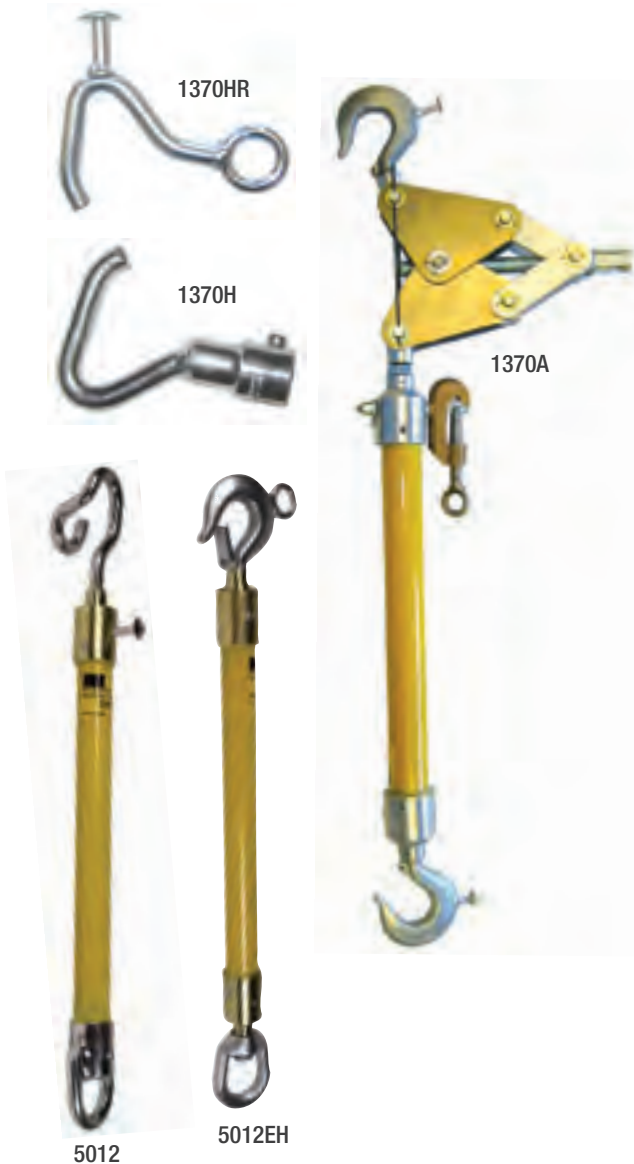
121CQ	Stranded Wire w/ Quick Change	-	2 (0.91)
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### CABLE HANDLER

50206	Handle and head	6'6" (1.98 m)	3 (1.36)
50208	Handle and head	8' (2.44 m)	4 (1.81)
5020H	Head only	-	1 (0.45)



# SECTIONALIZER KIT & INSULATING LINK STICKS



The **SECTIONALIZER KIT** temporarily disconnects and isolates a section of line without interrupting service to the balance of the circuit. The entire operation of installation and removal of the sectionalizers can be performed with live line tools. Particularly useful when circuits are interrupted as a result of conductor, insulation or pole failures. Service can be restored by cutting in sectionalizers to isolate the section of line that is in trouble.

Consists of 1-3/4" foam-filled fiberglass connected to a manually operated take-up device. The strain of the line is taken by means of the take-up device using the hook (Cat. No. 1370H), which fastens on the end of the socket wrench (Cat. No. 596FG or equal). The conductor is then cut and cleared.

The **INSULATING LINK STICKS** are designed to isolate rope, hoists, and blocks being used between energized conductors and a pulling device. They also provide dielectric properties if strap hoist becomes contaminated through field use. Cat. Nos. 2512, 2518, and 2524 are made with solid fiberglass. All insulating link sticks are proof tested and marked with WLL prior to shipment. Other lengths and configurations available. All bags hold 3 link sticks. Bags not included.

**Fiberglass used meets the requirements of ASTM F711.**

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
<b>SECTIONALIZER KIT</b>		
<b>1370SL</b>	Set includes: 3 of 1370A, 1 of 1370H, 1 of 1370FB	100 (45.3)
<b>PARTS</b>		
<b>1370A</b>	One Sectionalizer Only, 25 kV, 36" (0.91 m)	12 (0.91)
<b>1370H</b>	Hook with 1/2" Drive	1 (0.45)
<b>1370HR</b>	Hold Down Hook with Ring	1 (0.45)
<b>1370V</b>	Wire Holder, 9/16" (1.43 cm) max. size wire	2 (0.91)
<b>1370FB</b>	Box w/ Inserts 44" x 12" x 16" (112 x 31 x 41 cm)	60 (27.22)

CAT. NO.	OVERALL LENGTH in. (cm)	LENGTH BETWEEN Ferrules in. (cm)	FIBERGLASS Diameter in. (cm)	WLL lbs. (kgs)	WEIGHT lbs. (kgs)	CAT. NO.	WEIGHT lbs. (kgs)
<b>INSULATING LINK STICKS</b>							
<b>50012EH</b>	22 (55.9)	12 (30.5)	1 (2.5)	2,500 (1,134)	3 (1.36)	<b>B522</b> Bag	1 (0.45)
<b>50012EP</b>	22 (55.9)	12 (30.5)	1 (2.5)	2,500 (1,134)	3 (1.36)	<b>B522</b> Bag	1 (0.45)
<b>5012EH</b>	22 (55.9)	12 (30.5)	1 1/4 (3.2)	2,500 (1,134)	2 (0.91)	<b>B522</b> Bag	1 (0.45)
<b>5012</b>	22 (55.9)	12 (30.5)	1 1/4 (3.2)	1,500 (682)	2 (0.91)	<b>B522</b> Bag	1 (0.45)
<b>5012R</b>	22 (55.9)	12 (30.5)	1 1/4 (3.2)	1,500 (682)	2 (0.91)	<b>B522</b> Bag	1 (0.45)
<b>5112</b>	24 (61.0)	12 (30.5)	1 1/2 (3.8)	2,500 (1,134)	2 (0.91)	<b>B522</b> Bag	1 (0.45)
<b>2512</b>	28 (71.1)	12 (30.5)	1 (2.5)	10,000 (4,536)	2 (0.91)	<b>B522</b> Bag	1 (0.45)

## FERRULES & ACCESSORIES

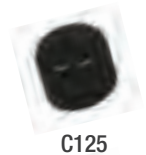
Universal and 5/8"-11 threaded hex ferrules are available for 1" (2.5 cm), 1-1/4" (3.2 cm), and 1-1/2" (3.8 cm) diameter fiberglass handles. Ferrules include a disc and rivet.

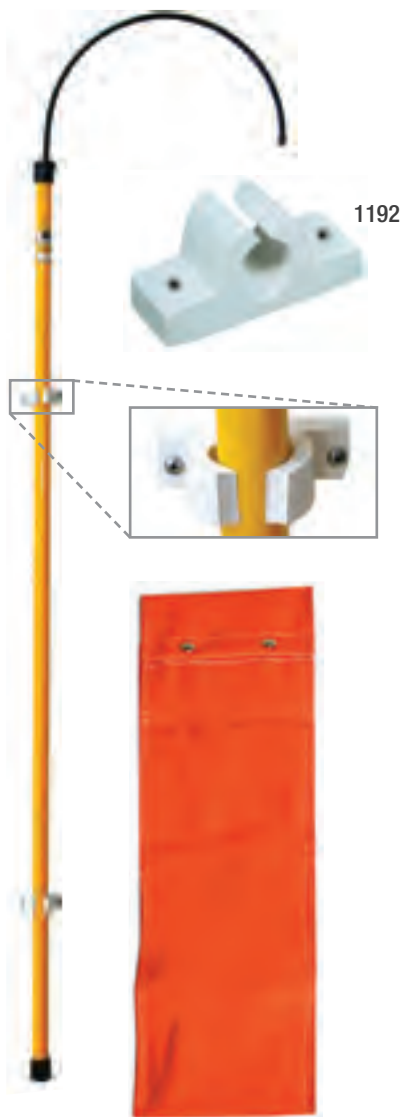
**KITS** include all material required to replace insulated stick ferrules. Please specify size. Each kit includes: one ferrule, one rivet, one disc for handle, sandpaper, a two-part adhesive and instructions.

Use the **SILICOTE CLOTH** to wipe dust and dirt from fiberglass insulating handles. Cloth is specially treated with silicone which leaves a thin coating on the insulating handles. Grease, insulation marks, and other foreign matter should be cleaned from handles with fiberglass handle cleaner before using the silicote cloth. Regular use of the silicote cloth will add to the life and safety of insulating handles. Packaged with directions in resealable, plastic bag.

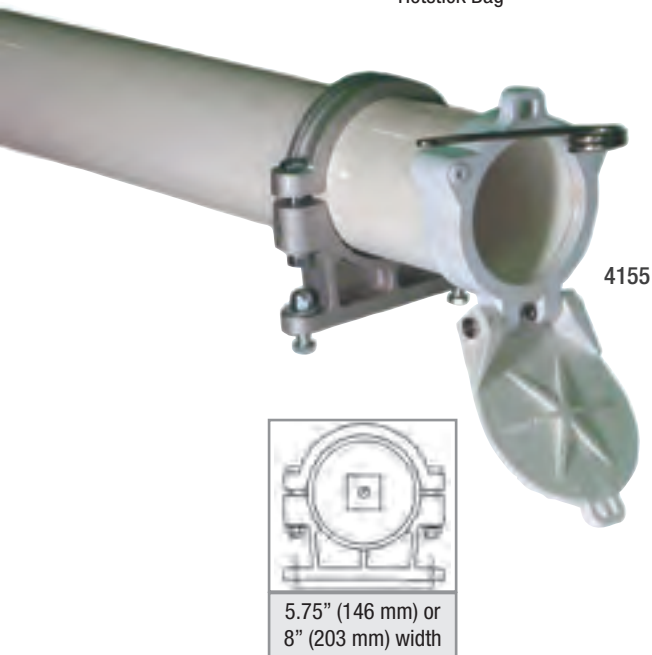
**HANDLE CLEANER** is formulated to clean and condition fiberglass handles. Removes moisture and other contaminants such as dirt, tar and grease without harming finish and leaves a thin water-repellent coating.

CAT. NO.	DESCRIPTION	SIZE	WEIGHT oz (g)
<b>HEXAGONAL FERRULES</b>			
4EFG	5/8"-11 - Zinc	1 1/4" (3.2 cm)	5 (156)
4EFGM	Insulated Hex Ferrule w/ Brass Threaded Insert 5/8"-11	1 1/4" (3.2 cm)	5 (156)
5EFG	5/8"-11 - Zinc	1 1/2" (3.8 cm)	12 (373)
<b>UNIVERSAL FERRULES</b>			
44UFG	Aluminum with Thumb Screw	1" (2.5 cm)	4 (124)
3400	Aluminum with Thumb Screw	1 1/4" (3.2 cm)	5 (156)
5EFGU	Zinc/Bronze with Thumb Screw	1 1/2" (3.8 cm)	1 lbs. (450)
<b>RIVETS</b>			
RH1881375	For 1" Ferrules	3/16" x 13/8" (5 x 34 mm)	1 (31)
RH1881625	For 1-1/4" Ferrules	3/16" x 15/8" (5 x 41 mm)	1 (31)
RH1882000	For 1-1/2" Ferrules	3/16" x 2" (5 x 51 mm)	2 (62)
<b>HEXAGONAL FERRULE KITS</b>			
4EK001	5/8"-11 - Zinc	1 1/4" (3.2 cm)	4 (124)
5EK001	5/8"-11 - Zinc	1 1/2" (3.8 cm)	4 (124)
<b>UNIVERSAL FERRULE KITS</b>			
4UK001	Aluminum with Thumb Screw	1 1/4" (3.2 cm)	4 (124)
5UK001	Zinc/Bronze with Thumb Screw	1 1/2" (3.8 cm)	4 (124)
<b>HANDLE CLEANERS</b>			
2000SC	Silicote Cloth	-	4 (124)
2001	Towelette	-	1 (31)
2002	1-Gal Bottle	-	9 lbs. (4 kgs)
2003	16 fl oz Spray Bottle	-	19 (.530)
<b>CAPS</b>			
C100	1" (2.5 cm) Cap	-	-
C125	1 1/4" (3.2 cm) Cap	-	-
C150	1-1/2" (3.8 cm) Cap	-	-





Hotstick Bag



5.75" (146 mm) or 8" (203 mm) width

**SALCOR® TOOL HOLDERS** secure tools to trailers, compartments and tool rooms. 12 per package.

**HOTSTICK BAGS** are constructed of heavy vinyl with double stitched seams. Flaps snap closed. 6" (152mm) wide and designed to hold sticks up to 4" (102mm) shorter than bag length shown on chart.

**TUBULAR PVC STORAGE CONTAINERS** provide weather tight storage. Kit includes two mounting brackets and four steel bolts with each 6" (152 mm) I.D. or 4.1" (104 mm) tube. Sized for tools 12" (305 mm) shorter than tube. Four mounting bolts 3/8" x 1.5" (9.5 x 38 mm) are supplied with each container. Kit may be ordered without tubing or with mounting brackets only.

CAT. NO.	DESCRIPTION	WEIGHT EA. lbs. (kgs)
1192	1.25 (32 mm) I.D. Tool Holder	3.5 (1.6)

CAT. NO.	DESCRIPTION /LENGTH feet (meters)	WEIGHT EA. lbs. (kgs)
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**HOTSTICK BAGS**

4297	5 (1.5)	.7 (.3)
4298	6 (1.8)	.8 (.3)
4299	6' 4" (1.9)	.9 (.4)
4300	7 (2)	1 (.4)
4301	8' 4" (2.5)	1.1 (.5)
4302	9 (2.7)	1.2 (.5)
4303	10' 4" (3)	1.4 (.6)

**4" I.D. TUBULAR PVC STORAGE KIT**

4155	7 (2.13)	17 (7.7)
4156	9 (2.74)	20 (9)

**6" I.D. TUBULAR PVC STORAGE KIT**

4167	6 (1.82)	20 (9)
4168	7 (2.13)	22 (10)
4169	9 (2.74)	26 (11.7)

CAT. NO.	DESCRIPTION/DIMENSIONS in. (mm)	WEIGHT EA. lbs. (kgs)
9822	Kit for 6" (152) I.D. 6.6" (168) O.D.	8 (3.5)
9823	Kit for 4.1" (104) I.D. 4.5" (114) O.D.	6 (2.7)
C4007	I.D. 4" (102) 7' (2.13 m)	19 (8.62)
C4009	I.D. 4" (102) 9' (2.75 m)	22 (9.98)
C4011	I.D. 4" (102) 11' (3.35 m)	26 (11.79)
C4013	I.D. 4" (102) 13' (3.96 m)	29 (13.15)

**CONTAINER KITS**

C4000	Kit w/o Lock I.D. 4" (102)	6 (2.72)
C4000L	Kit w/ Lock I.D. 4" (102)	9 (4.08)



## RESCUE HOOK & STATIC DISCHARGE STICK

**INSULATED RESCUE HOOK** - Salisbury's insulated rescue hook is an invaluable tool for any workplace. It is used to release a victim from contact. Confined spaces, in vaults, or just near electrical cabinets and switch gear are some of the places where this tool is a must. Insulated rescue hooks feature a foam-filled, fiberglass reinforced handle for superior electrical insulation and a coated, heat treated body hook with an 18" opening and are made in accordance with ASTM Standard F711. The stick is available in the standard lengths of 6 and 8 feet. Other lengths are available as a special order. Contact us with your requirements.

**STATIC DISCHARGE STICK** - The Static Discharge Stick is designed to safely remove the static charge after de-energizing. This tool is pre-assembled and includes a brass alloy "U" hook, closed cell foam-filled tubular fiberglass switch stick made in accordance with ASTM Standard F711. Static discharge sticks have 6 feet of copper grounding cable attached to a Salisbury 1814 flat jaw, grade 3, bronze serrated clamp with strain relief.

CAT. NO.	DESCRIPTION / ft. (m)	WEIGHT lbs. (kgs)
<b>INSULATED RESCUE HOOK</b>		
24400	Rescue Hook 3' (0.9 m) length	3.4 (1.5)
24401	Rescue Hook 6' (1.8 m) length	4.5 (2)
24403	Rescue Hook 8' (2.4 m) length	5.5 (2.5)

<b>STATIC DISCHARGE STICK</b>		
20817	Static Discharge Stick OAL 3'8" (1.08 m) length	8 (3.6)
22629	Static Discharge Stick w/ Universal Attachment 1' (0.3 m) length	.38 (0.17)



**WARNING: DISCHARGE STICKS ARE NOT GROUNDING TOOLS AS DESCRIBED BY OSHA 1910.269 AND CARRY NO FAULT DUTY RATING.**



24401  
Rescue Hook  
(Shown with Tool Holder)

20817

22629 STATIC DISCHARGE STICK  
W/ UNIVERSAL ATTACHMENT



1930535415Q

A **DISCHARGE HOOK** is used to drain capacitive voltage. The probe is first used to make contact, then the hook can be used to make direct contact bypassing the fuse. The fuse gives added protection in case initial contact is accidentally made on energized equipment. Fuse is rated at 8 kV maximum, 6 amperes continuous.

A **DISCHARGE HOOK** is a special discharging device used to de-energize capacitors and other voltage retaining components before maintenance work is performed. Mounting clip (Cat. No. 1925MC) is included. Standard handle length is 2 feet (0.61 m). Other cable and handle lengths are available.

**RESISTIVE DISCHARGE HOOKS/PROBES** with resistors help eliminate initial surge current. Second hook bypasses resistors for residual discharge. Resistive discharge hooks and probes use #6 flexible copper, clear-jacketed cable, a hand guard, hook or probe, and a 1" (2.5 cm) diameter fiberglass insulating handle. The handle complies with ASTM F-711. All come with a clear PVC cover to protect resistors from damage from bumps and knocks. Not all resistors fit all hooks. Please note resistor's outside diameter and length. Mounting clip (Cat. No. 1925MC) is included. Other lengths and configurations are available.

**FOR DISCHARGE ONLY. DO NOT USE AS LIVE LINE TOOL OR GROUNDING DEVICE.**

CAT. NO.	DESCRIPTION	WEIGHT EA. lbs. (kgs)	
<b>FUSED DISCHARGE HOOK</b>			
1930535415Q	Fused Discharge Hook	10 (4.53)	
<b>DISCHARGE HOOK</b>			
	<b>GROUND LEAD LENGTH</b>		
1925	5' (1.52 m)	2 (0.91)	
19257	7' (2.13 m)	2.5 (1.13)	
19258	8' (2.44 m)	3 (1.36)	
192510	10' (3.05 m)	4.5 (2.04)	
192520	20' (6.10 m)	5 (2.27)	
<b>RESISTIVE DISCHARGE HOOK/PROBES</b>			
	<b>HANDLE LENGTH</b>	<b>GROUND LEAD LENGTH</b>	
19250005	23" (0.58 m)	5' (1.52 m)	2 (0.91)
192500655	7' (2.13 m)	10' (3.05 m)	4.5 (2.04)
19250007	5' (1.52 m)	7' (2.13 m)	4 (1.81)
<b>ACCESSORIES</b>			
1925MC	Mounting Clip	3 oz (0.084)	
1925DMC	Mounting Clip with Hardware	4 oz (0.112)	

# TOOLS

**TOOL HEADS** are used in live line applications. This equipment should be mounted on suitable handles to ensure proper distance from live conductors. Below are the choices of end fittings available. All tools have one of these three fittings.



### Quick Change End Fitting

Has a 5/8"-11 threaded stud that threads into the top of a hexagonal ferrule. A hexagonal collar slides down and over the hexagonal ferrule making a strong, positive connection. A plastic safety clip is used to lock the quick change end fitting to an insulating handle.

### Universal End Fitting

Gives the user the option to position and secure an universal tool head at several angles. It also allows meters to be attached to universal handles. Universal fittings can be installed on universal sticks by using the 2500 shotgun adapter.

### Grip All or Eye Screw End Fitting

For use with the clamp stick. The hook from the clamp stick is hooked through the eye hole of the eye screw, then drawn into the clamp stick and secured.



### Safety Clip for Quick Change

Locks a quick change tool head to handle.  
320E .1 oz (3 g)

### Convertible Adapter

3401Q Changes QC to U 1 lbs. (0.45 kgs)  
3401TS Thumb Screw Only 1 lbs. (0.45 kgs)

### Convertible Adapter

2500 Shotgun Adaptor .4 lbs (.2 kgs)



### Bayonet Ferrule

Installs/removes ground heads with bayonet studs.  
98B\* 1 lbs. (0.45 kgs)

### Toggle & Spring

The 1/2" (1.3 cm) square drive converts handles into a socket stick.  
5900\* 2 lbs. (0.91 kgs)

### Handle Splice Joint & Spring

Splices two handles together creating a flexible handle.  
3302\* 2 lbs (0.91 kgs)

\* Add suffix "U" for Universal, "Q" for Quick Change



**Pin Holder for Clevis-Type Insulators**  
2900\* 1 lbs. (0.45 kgs)



**Convertible Adapter**  
3402Q Changes QC to GA 8 oz (224 g)



**Convertible Adapter**  
3402U Changes GA to U 6 oz (168 g)



**Cotter Key Installer**  
3500\* 1 lbs. (.45 kgs)



**Wrench Attachment**  
9\* 2 lbs. (0.91 kgs)



**Switch Disconnect w/ Hammer Head**  
1900U .19 lbs. (.08 kgs)



**Ratchet Wrench**  
4115 1/2" (12.7 mm) sq. drive .5 lbs (.22 kgs)



**Screwdriver**  
13\* Screwdriver 8 oz (0.23 kgs)



**Hammer**  
165\* 1 lbs. (0.45 kgs)



**Quick Change Handle Splice Joint**  
3301 2 lbs (0.91 kgs)



**Flex Head Socket Wrench**  
4114 1.2 lbs (.5 kgs)



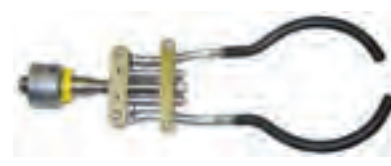
**Clamp Stick Head**  
9834 Clamp Stick Head 1.4 lbs (.6 kgs)



**Alligator**  
4D\* Alligator 1 lbs. (0.45 kgs)



**Universal System Tool Blanket Pin**  
UST 1 lb. (.45 kgs)



**Adjustable Insulator Fork**  
8300\* 2 lbs. (0.91 kgs)



**Mechanical Hand**  
1C\* 1 lbs. (0.45 kgs)



**Inspection Mirror**  
9900\* 5" (12.7 cm) dia. 8 oz. (224 g)



**Prong Disconnect**  
9970 .4 lbs (.2 kgs)

\* Add suffix "U" for Universal, "Q" for Quick Change

# TOOLS

\* Add suffix "U" for Universal, "Q" for Quick Change



### Cotter Key Remover

11\* Remover 12 oz (.38 kgs)  
1101\* Spring Loaded Remover 12 oz (.38 kgs)



### Locating Drift

Use where aligning or hardware fitting is difficult.  
8A\* 2 lbs. (.91 kgs)



### Extension Offset Switch Hook

Safely removes fuses from outdoor disconnects.  
190001\* Steel 1 lbs. (0.45 kgs)  
190002\* Aluminum/Bronze 1 lbs. (0.45 kgs)



### Line Hose Applicator

2" x 18" (5.1 x 45.7 cm) jaws  
1680\* 4 lbs (1.81 kgs)



### Chuck Blank

Inside Depth: 1/2" x 1 1/2" (13 x 38 mm)  
9838 .4 lbs (.2 kgs)



### Hanging Hook

Attaches to all fiberglass handles.  
190HC 3 oz. (84 kgs)



### Rotary Prong Tie Head

4099 .6 lbs (.27 kgs)



### Pointed Disconnect

9839 .4 lbs (.2 kgs)



### Double Prong Tie Head

4101 .5 lbs (.22 kgs)



### Light Duty Cutout Prong

9971 .4 lbs (.2 kgs)



### Insulator Fork

Used in handling ball and socket insulators.  
8301\* 2 lbs. (0.91 kgs)



### Heavy Duty Disconnect Head

9969 .6 lbs (.3 kgs)



### Convertible Adapter

5/8" - 11 Internal Thread  
3403 Changes QC to U 3 oz (93 g)



### Switch Hook

190\* 8 oz. (0.25 kgs)



### Dead End Automatic Sleeve Applicator

Dia. 1/4" to 1 1/2" (6.4 to 38 mm)  
16 2 lbs. (0.91 kgs)



**Wire Grip**

Grips conductor, has hole for block or line hook. WWL for grip is 1,000 lbs (454 kgs) at a 4:1 ratio.

3600\* Opening min. 5/16" max. 7/8" 2 lbs (7.9 mm, 2.2 cm) (0.91 kgs)  
 3601\* Opening min. 1/2" max. 1-1/2" 3 lbs. (1.3 cm, 3.8 cm) (1.36 kgs)



**GA Adapter w/ Square Drive & Spring-Loaded Socket**

3402L5934 1/2" (1.3 cm) Square Drive  
 3/4" (1.9 cm) Socket  
 2 lbs (0.91 kgs)



**Pig Tail**

5C2\* 7/8" (2.2 cm) opening 1 lbs. (.45 kgs)  
 5C3\* 1-1/2" (3.8 cm) opening 2 lbs. (.91 kgs)  
 5C4 2" (5.1 cm) opening 2 lbs. (.91 kgs)



**Tree / Wire Hook**

4236 .36 lbs (.2kgs)



**Pig Tail Disconnect**

9878 .4 lbs (.2 kgs)



4108 Tubular Line Cleaner 1.3 lbs (.6 kgs)  
 4109 Replacement Brush .5 lbs (.22 kgs)



4111 "V" Line Cleaner 1.3 lbs (.6 kgs)  
 4113 Replacement Brushes (10) 3 lbs (1.4 kgs)



152\* "V" Brush 1.5 lbs. (0.68 kgs)  
 152B Replacement Brush 3 ozs. (.09 kgs)



1520010GAH  
 Brush w/ Handle & Cover 1 lbs. (0.45 kgs)



1521\* Semi-Tube Brush 1.5 lbs. (0.68 kgs)  
 1521B Replacement Brush 12 ozs. (0.37 kgs)



1521003\* Semi-Tube Side Brush 1.5 lbs. (0.68 kgs)



4103 Handle for Pruning Saw .5 lbs (.22 kgs)

\* Add suffix "U" for Universal, "Q" for Quick Change

# TOOLS



Mounted on 12" (30.6cm) fiberglass pole  
 4105 Tree Pruner - Universal  
 25' (7.62 m) of line  
 4 lbs. (1.81 kgs)

7992FGQ Tree Pruner - Quick Change  
 12' (3.06m) of line  
 4 lbs. (1.81 kgs)



4102 Fixed Blade Tie Head .5 lbs (.22 kgs)



4100 Rotary Blade Tie Head .7 lbs (.3 kgs)

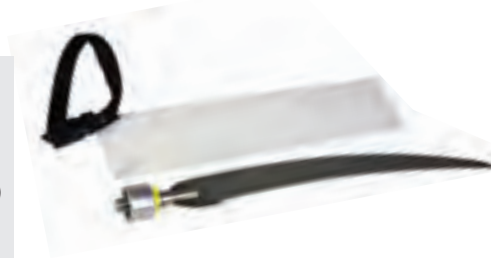


4104 Pruning Saw w/ 18" (457 mm) blade  
 .5 lbs (.22 kgs)



4106 Curved Blade Skinning Knife  
 .4 lbs (.2 kgs)

4107 ReplaCement Blade .1 lbs (.04 kgs)



7991\* Pruning Saw w/ 14" (35.6 cm)  
 1 lbs. (0.45 kgs)

7991WS Saw Sheath .5 lbs. (0.22 kgs)



**Test Point Cap Seal Cleaner**  
 1520006\* 1lbs. (0.45 kgs)



**Wire Gauges**  
 860002\* Aluminum Fits: #4 to 397.5  
 1 lbs. (0.45 kgs)  
 860004\* ACSR/Aluminum Fits: #4 to .556  
 1 lbs. (0.45 kgs)  
 860005\* Copper Fits: #8 to 4/0  
 1 lbs. (0.45 kgs)

\* Add suffix "U" for Universal, "Q" for Quick Change

# ARMOR ROD TOOLS, JUMPER HEADS & PENTA SOCKETS



1241Q



124Q



98SADGA

The **JUMPER HEADS** have a maximum opening of 19/16” (4.0 cm) and are designed with built-in universal joints in order to accommodate installation lines at an angle. The jumper heads have a quick action tightening screw for fast closing. Threaded adapters are used to accept 5/8-11 threaded non-shrouded ferrules. A hose clamp is included for connection strain relief.

Use the **PENTA SOCKET** to tighten or loosen special 3/4” (19 mm) penta head sockets. Comes with a “T” handle. Can be used with any 1/2” (13 mm) drive wrench.



590002



590001S



590001



593412PHT

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
<b>ARMOR ROD TOOLS</b>		
124*	Armor Rod Applicators	2 (0.91)
1241*	Formed Wire Tools	2 (0.91)

<b>PENTA SOCKET</b>		
CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
590001S	3/4” (19 mm) Penta head Socket Only	1 (0.45)
590001	“T” Wrench with 3/4” (19 mm) Penta head Socket	1 (0.45)
590002	Speed Wrench with 3/4” (19 mm) Penta head Socket	2 (0.91)
59P34916SD	Penta Wrench, 3/4” (11 mm), 9/16” (14 mm), and Screw Driver	3 (1.36)
5900017/16T	“T” Wrench with 3/4” (11 mm) Penta head Socket and 7/16” depth	1 (0.45)
593412PHT	“T” Wrench with 3/4” (11 mm) and 1/2” (13 mm) Penta head Sockets	1 (0.45)

CAT. NO.	DESCRIPTION	MAX. OPENING	CONTINUOUS DUTY	WEIGHT lbs. (kgs)
<b>JUMPER HEADS WITH THREADED ADAPTERS</b>				
98SADGA	Grip All Wide Jaw	1-9/16”	600 amps	3 (1.36)

\* Add suffix “Q” for quick change, “U” for universal, “HDQ” for heavy duty w/ quick change, “HDU” for heavy duty w/ universal.



# FUSE PULLER TOOLS

The standard **FUSE PULLER** heads (Cat. No. 92Q) have plastic jaws that fit fuses from 3/4" (1.9 cm) to 2" (5.1 cm) diameter. Heads are pivotally mounted to permit adjustment to any angle. To tighten the jaws, just rotate the handle. The insert jaws (Cat. No. 190NLF) for the 1-3/16" (2.1 cm) diameter liquid filled fuse are held on the fuse puller with springs. The attachment on the end of each fuse puller is Cat. No. 190Q, quick change switch hook. Other lengths available. Bag not included. Fiberglass handle diameter: 1-1/4" (3.2 cm).



CAT. NO.	DESCRIPTION	HANDLE LENGTH	WEIGHT lbs. (kgs)
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### FUSE PULLER TOOL

196FGQ	Quick Change	6'6" (1.98 m)	5 (2.27)
196FGU	Universal	6'6" (1.98 m)	5 (2.27)
198FGQ	Quick Change	8' (2.43 m)	6 (2.72)
198FGU	Universal	8' (2.43 m)	6 (2.72)

### PARTS

92Q	Head Only, Quick Change	-	2 (0.91)
92U	Head Only, Universal	-	2 (0.91)
190Q	Switch Hook, Quick Change	-	1 (0.45)
190NLF	Insert Jaws for 13/16" (2.1 cm) diameter S & C Liquid Fuse	-	1 (0.45)

CAT. NO.	DESCRIPTION	MAXIMUM DIAMETER	WEIGHT lbs. (kgs)
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### FUSE PULLER HEADS

9209Q	Liquid Fuse, Quick Change	13/16" (2.1 cm)	3 (1.36)
9209U	Liquid Fuse, Universal, Head Only	13/16" (2.1 cm)	3 (1.36)
92225001Q	Quick Change	2 1/4" (5.7 cm)	3 (1.36)
92225001U	Universal	2 1/4" (5.7 cm)	3 (1.36)
92225001GA	Grip All	2 1/4" (5.7 cm)	3 (1.36)





The **PARALLEL GROOVE CLAMP TOOL** accommodates cap-screw type parallel groove clamps (one, two and three bolt types). The parallel groove tool head clamps can be installed from almost any angle by use of the universal ball clamp. The handles are fiberglass, with the operating handle having a diameter of 1" (2.5 cm) and the stationary handle 1-1/4" (3.2 cm). Bag not included. Other lengths available.

The **WISE TYPE CONNECTOR TOOL** installs and removes all sizes of single bolt vise type connectors on energized lines. With this tool it is possible to install connectors on a line as efficiently as when done by hand. The handles are fiberglass. The operating handle is 1" (2.5 cm) in diameter and the stationary handle is 1-1/4" (3.2 cm) in diameter. Bag not included. Other lengths available. Order operating sticks separate.

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
<b>PARALLEL GROOVE CLAMP TOOL HEAD</b>		
1800CQ	Quick Change Head	3 (1.96)
1800CU	Universal Head	3 (1.96)
1800CQS	Quick Change Head with Top Hook	3 (1.96)

<b>PARALLEL GROOVE CLAMP TOOL SOCKET</b>		
1800SS	9/16" (1.4 cm)	1 (0.45)
1800SM	3/4" (1.9 cm)	1 (0.45)
1800SL	15/16" (2.4 cm)	1 (0.45)

<b>CONNECTOR TOOL VISE TYPE HEAD</b>		
72CQ	Quick Change Head Only	3 (1.96)
72CU	Universal Head Only	3 (1.96)

<b>CONNECTOR TOOL VISE TYPE</b>		
72S3/8	3/8" (0.95 cm)	2 oz. (45 g)
72S9/16	9/16" (1.4 cm)	2 oz. (45 g)
72S3/4	3/4" (1.9 cm)	2 oz. (45 g)

## HAND TOOLS

All **INSULATED ADJUSTABLE WRENCHES** have a spring to prevent the jaws from accidentally moving while in use. These wrenches have a 12" (30.5 cm) wrench head and are supplied with a 1-1/4" (3.2 cm) diameter fiberglass handle.

**INSULATED RATCHET WRENCH** comes with a 1-1/2" (3.2 cm) fiberglass handle. Standard 1/2" (1.3 cm) square drive.

The **INSULATED RATCHET WRENCH FOR CLAMP TOP** has an 1-1/4" (3.2 cm) diameter fiberglass handle with eye on end for use with a clamp top tool (Cat. Nos. 44CQ or 44CU).

The **TOGGLE HANDLE** is used to convert any double threaded ferrule stick to a toggle handle for torquing requirements.

CAT. NO.	HANDLE LENGTH	WEIGHT lbs. (kgs)
<b>INSULATED ADJUSTABLE WRENCH</b>		
1160	12" (30.5 cm)	1 (0.45)
1161	18" (45.7 cm)	2 (0.91)
1162	24" (61.0 cm)	3 (1.36)
<b>INSULATED RATCHET WRENCH</b>		
4412	12" (30.5 cm)	2 (0.91)
4418	18" (45.7 cm)	3 (1.36)
<b>INSULATED RATCHET WRENCH FOR CLAMP TOP</b>		
44CFG	8" (20.3 cm)	2 (0.91)
<b>TOGGLE HANDLE</b>		
1258HEQ	Quick Change - 8" (20.3 cm)	1 (0.45)

1258HEQ



44CFG



1161



3008FG

**LIVE LINE LEVER CUTTERS** are compound shear cutters made from a heat-treated alloy steel. The stationary handle is 1-1/2" (3.8 cm) in diameter and the operating handle is 1" (2.5 cm) in diameter. For cutting tie wires, jumper taps and conductors up to 2/0. Larger wires should be cut with ACSR lever cutters. Bags available. Not for use on ACSR.

The **ALL ALUMINUM & SOFT COPPER CUTTER** cutting head is adapted to fiberglass handles for live line work on underground and overhead conductors. For use on aluminum up to 750 kcmil and copper to 500 kcmil. Bags available.

Not for use on ACSR or steel.

**ACSR CUTTERS WITH PERMANENT HEADS** cut ACSR up to 396 kcmil. The cutting head is permanently attached. Bags available.

The **SOFT CABLE CUTTER WITH REMOVABLE HEAD** is lightweight, rugged and strong. The two-handed cutter head gives clean, shearing cuts. Bags available. Not for use on ACSR or steel.

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
<b>LIVE LINE LEVER CUTTERS</b>		
3004FG	4' (1.22 m)	11 (4.99)
3006FG	6' (1.83 m)	11 (4.99)
3008FG	8' (2.44 m)	11 (4.99)
<b>ALL ALUMINUM &amp; SOFT COPPER CUTTERS</b>		
670	24" (61.0 cm)	5 (2.27)
672	36" (91.4 cm)	7 (3.18)
<b>ACSR CUTTERS WITH PERMANENT HEADS</b>		
67130ACFG	30" (76.2 cm) 34" (86.4 cm)	5 (2.27)

CAT. NO.	MAXIMUM CABLE SIZE			HANDLE Length	WEIGHT lbs. (kgs)
	Copper Power	Aluminum Power	Communication		
<b>SOFT CABLE CUTTER WITH REMOVABLE HEAD</b>					
670001	500 kcmil	750 kcmil	1 3/8" (3.5 cm)	24" (61.0 cm)	5 (2.27)
6700011	750 kcmil	1200 kcmil	1 3/4" (4.5 cm)	24" (61.0 cm)	6 (2.72)
671001	500 kcmil	750 kcmil	1 3/8" (3.5 cm)	30" (76.2 cm)	5 (2.27)
6710011	750 kcmil	1200 kcmil	1 3/4" (4.5 cm)	30" (76.2 cm)	7 (3.18)

## TRANSFORMER GIN ASSEMBLY & TOOL FRAME

**TRANSFORMER GIN ASSEMBLIES** are designed to lift transformers, cross arms and other items used in pole construction. Assembly consists of a pole with ferrules, top fitting, center fitting, base fitting and protective bag for the pole. Has a balanced or \*unbalanced safe working load limit of 2,500 lbs. (1,134 kgs), at a minimum of 18" apart. The working load limit (WLL) is the total load on the gin assembly including load to be lifted, pull on fall line and friction. Rope and block assembly not included.

The **TOOL FRAME** is a convenient place to hang tools when they are not in use, has swivel eye allowing the frame to rotate.

The **ROPE-SNUBBING BRACKET** attaches to the pole and provides a safe place to tie lines or hook blocks when handling loads.



**WARNING: TAGGING LOADS WORKING LOAD LIMIT SUBJECT GIN TO SIDE LOADING THAT WILL REDUCE WLL.**



112

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)	WLL
<b>TRANSFORMER GIN ASSEMBLY</b>			
112	Transformer Gin Assembly	89 (40.36)	2,500 lbs
<b>TRANSFORMER GIN ASSEMBLY</b>			
100T	Tool Frame	1 (0.45)	-
100TR	Tool Frame with Rope and Snap	2 (0.91)	-
<b>ROPE-SNUBBING BRACKET</b>			
8200	Pole Type Bracket with Rings, Chain Length: 51" (1.30 m)	10 (4.55)	-
8200S	Pole Type Bracket without Rings Chain Length: 51" (1.30 m)	10 (4.55)	-



100TR



8200



8200S



**CROSS ARM GINS** are used on cross arms when only one conductor needs to be raised. Use the arm gin to change insulators; apply an armor rod to a conductor; raise a conductor from a lower position to the cross arm, or lower the conductor. The 2-1/2" (6.4 cm) diameter fiberglass pole has two eyes at the top in which to hook the block line and tie back line. The base fits a 4-3/4" x 5-7/8" (12.1 x 14.9 cm) cross arm. Included shims are needed for smaller arms.

The **TRANSFORMER GIN ASSEMBLY** is made from steel. Can be installed on the pole by one lineman with the single alloy chain. The assembly can also be installed over a cross arm. Blocks can be installed in the eye or from the shackle provided. Rope guides for the fall line are located on both sides of the gin assembly. The gin assembly has a safe working load limit of 2,000 lbs. (907 kgs). The safe working load limit is the total load on the gin assembly including load to be lifted, pull on fall line and friction.



**WARNING: TAGGING LOADS WILL SUBJECT GIN TO SIDE LOADING THAT WILL REDUCE THE WLL.**

The **HEAVY DUTY TRANSFORMER GIN ASSEMBLY** designed for easy installation on the pole with a 5/16" high test chain and tightening handle. The gin can also be installed over a cross arm. The assembly has a safe working load limit of 5,000 lbs. (2,268 kgs). The safe working load limit is the total load on the gin assembly including load to be lifted, pull on fall line and friction.



**WARNING: TAGGING LOADS WILL SUBJECT GIN TO SIDE LOADING THAT WILL REDUCE THE WLL.**



CAT. NO.	LENGTH	WEIGHT lbs. (kgs)	WLL lbs.
<b>CROSS ARM GIN</b>			
7003	3' (0.91 m)	12 (5.44)	600 (272)
7004	4' (1.22 m)	12 (5.44)	600 (272)
7005	5' (1.52 m)	13 (5.90)	600 (272)

<b>TRANSFORMER GIN ASSEMBLY</b>			
133	-	25 (11.34)	2,000

<b>HEAVY DUTY TRANSFORMER GIN ASSEMBLY</b>			
1200SL	-	39 (17.73)	5,000

## GROUND ROD DRIVERS & FRAMING JACK

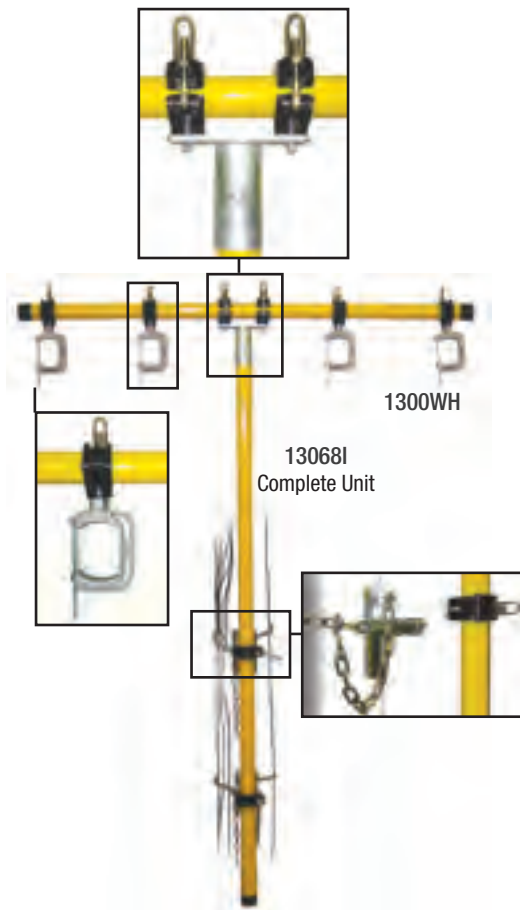
**GROUND ROD DRIVERS** are 60" (1.52 m) long and drives 5/8" (1.6 cm) ground rods deep by concentrating impact directly to the rod. Light-weight and easy-to-use. Drives 1/2" (1.3 cm) ground rods with less effort than conventional methods. Discs surrounding the handle protect hands from walls, shrubbery and the sliding parts.

**ADAPTER** for 5/8" (1.6 cm) ground rod are available.

The **FRAMING JACK** is designed to lift the largest poles with ease and safety. The framing jack slips under a pole lying flat on the ground and raises it without danger of it toppling over. Measures 15" (38.1 cm) long. WLL at 2:1 - 3,000 lbs. (1,357 kgs).

CAT. NO.	DESCRIPTION	LENGTH	WEIGHT lbs. (kgs)
<b>GROUND ROD DRIVERS</b>			
1350	Ground Rod Driver	60" (1.52 m)	45 (20.40)
<b>ADAPTERS</b>			
1350058A	For 5/8" (1.6 cm) Ground Rods	-	1/2 (0.21)
<b>FRAMING JACK</b>			
640001	Framing Jack with Ratchet Wrench	-	58 (26.38)
6400B	Ratchet Wrench Only	-	1 (0.45)





156024NI

The **TEMPORARY TRANSFER ARM** is used to change crossarms, insulators or poles on short spans up to and including 15 kV phase to phase. The mast (Cat. No. 1306M) is 2-1/2" in diameter by 6 feet (1.82 m) long. The horizontal arm (Cat. No. 1340WHF8) is 2-1/2" in diameter by 8 feet (2.44 m) long. The arm has a balanced load rating of 600 lbs. (272 kgs); unbalanced at 150 lbs. (68 kgs).

The **TEMPORARY SIDE ARM - POLE MOUNTED** holds energized conductors during replacement of poles and repair or replacement of insulators. It is made of 2-1/2" (6.3 cm) diameter foam-filled fiberglass with removable and adjustable wire holders. Each arm has a strap hoist or chain binder. Specify length of arm and number of wire holders needed. Side arms without insulators are rated for 15 kV; with insulators, 35 kV. Eight foot side arm includes arm support. WLL: 4 FT (1.22 M) - 300 LBS. (136 Kgs)

The 6 foot (1.83 m) side-mounted **TEMPORARY SIDE ARM - CROSS ARM MOUNTED** has 2 wire holders and is used as a temporary conductor holder while replacing or repairing existing conductors or insulators. Made from 2 1/2" diameter foam-filled fiberglass. Both wire holders are adjustable and removable. Units without insulators are rated for 15 kV and 35 kV with insulators. WLL: 300 LBS. (136 Kgs) OR 150 LBS. (68 Kgs) PER WIRE HOLDER.

CAT. NO.	NUMBER OF WIRE HOLDERS	ARM Length	WEIGHT lbs. (kgs)
<b>TEMPORARY SIDE ARM - POLE MOUNTED NYLON STRAP BINDER WITH INSULATORS</b>			
156024NI	2	4' (1.22 m)	17 (7.71)
<b>NYLON STRAP BINDER WITHOUT INSULATORS</b>			
156024N	2	4' (1.22 m)	16 (7.26)
CAT. NO.	FOR CROSS ARM SIZE	WEIGHT lbs. (kgs)	
<b>TEMPORARY SIDE ARM - CROSS ARM MOUNTED WITH INSULATORS</b>			
15466I	6" x 6" (15.2 x 15.2 cm)	23 (10.43)	
CAT. NO.	WEIGHT lbs. (kgs)		
<b>TEMPORARY TRANSFER ARMS WITH INSULATORS</b>			
13068I	65 (29.48)		
<b>TEMPORARY TRANSFER ARMS WITHOUT INSULATORS</b>			
13068	65 (29.48)		
<b>TEMPORARY TRANSFER ARMS INSULATORS</b>			
1309GIB	1 (0.45)		
<b>WIRE HANGER WITHOUT INSULATORS</b>			
1300WH	3 (1.36)		
<b>TEMPORARY SIDE ARM WIRE HANGER WITHOUT INSULATORS</b>			
1309D	2.5 (1.13)		

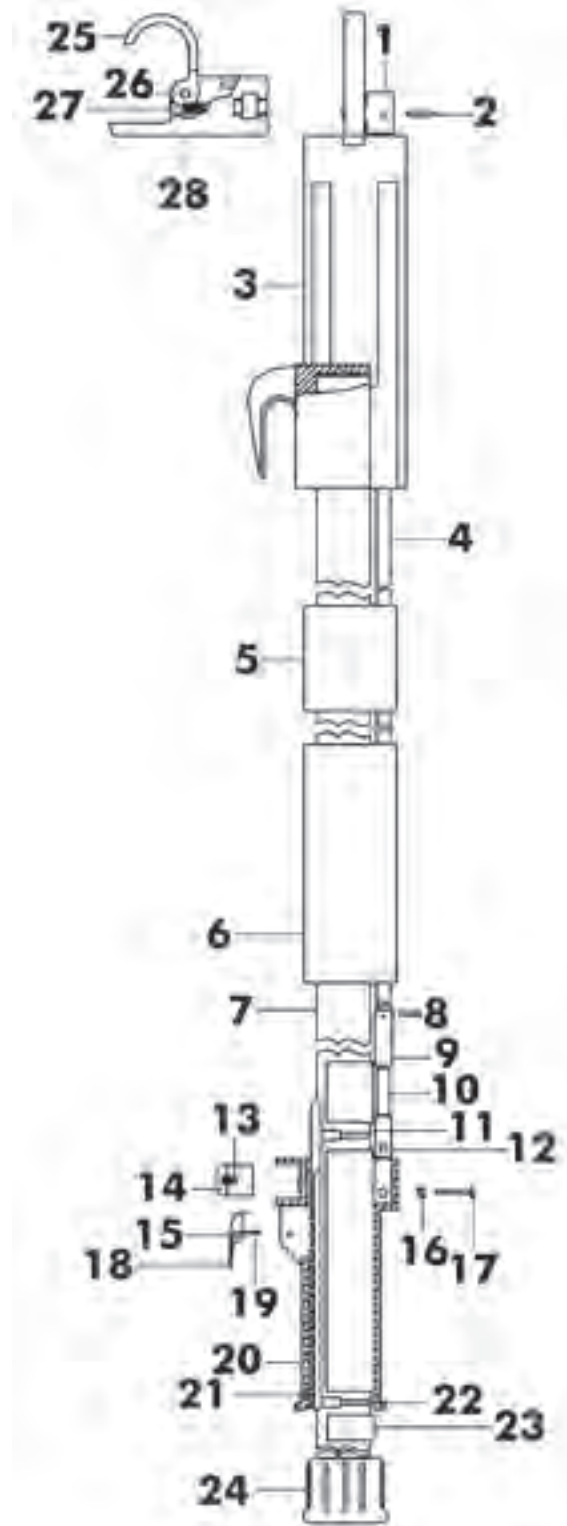


# FIBERGLASS HOT CLAMPSTICKS REPAIR PARTS LIST

## EXTERNAL ROD

REF. NO.	CAT. NO.	DESCRIPTION
1	20178	Guide Assembly
2	20260	Roll Pin .125" Dia. x .5" Lg. (3.2 x 13 mm)
3	20174	Ferrule
4*	20265-1	Operating Rod
5*	20381	Operating Rod Guide
6	20250	Handguard Sleeve
7	20114	Hotstick Blank 1.25" Dia. (32 mm)
8	20262	Roll Pin .125 Dia. x .56 Lg. (3.2 x 14 mm)
9	20251	Operating Rod Connector
10	20258	Hex Socket Set Screw .375-16 x 1.25
11	20257	Flat Head Screw 10-32 x 1.125 Lg. (254-813 x 29)
12	20253	Adjustment Block
13	20254	Compression Spring
14	20139	Button
15	20263	Roll Pin .125 Dia. x .75 Lg. (3.2 x 19)
16	20445	10-32 Hex Jam Nut
17	20443	Hex Head Machine Screw 10-32 x 1.25
18	20140	Trigger
19	20255	Torsion Spring
20	20141	Handgrip
21	20142	Rack for Handgrip
22	20257	Flat Head Screw 10-32 x 1.125 Lg. (254-813 x 29)
23	20252	Handgrip Sleeve
24	1959	End Cap
25	20176	Jaw Hook
26	20332	Roll Pin .25 Dia. x .47 Lg. (6 x 12)
27	20470	Hook Spring
28	20177	Hook Holder

ASSEMBLY NO.	DESCRIPTION	CONSIST OF PARTS
4317	Hook Assembly	25, 26, 27, 28



# INSULATORS



# INSULATORS



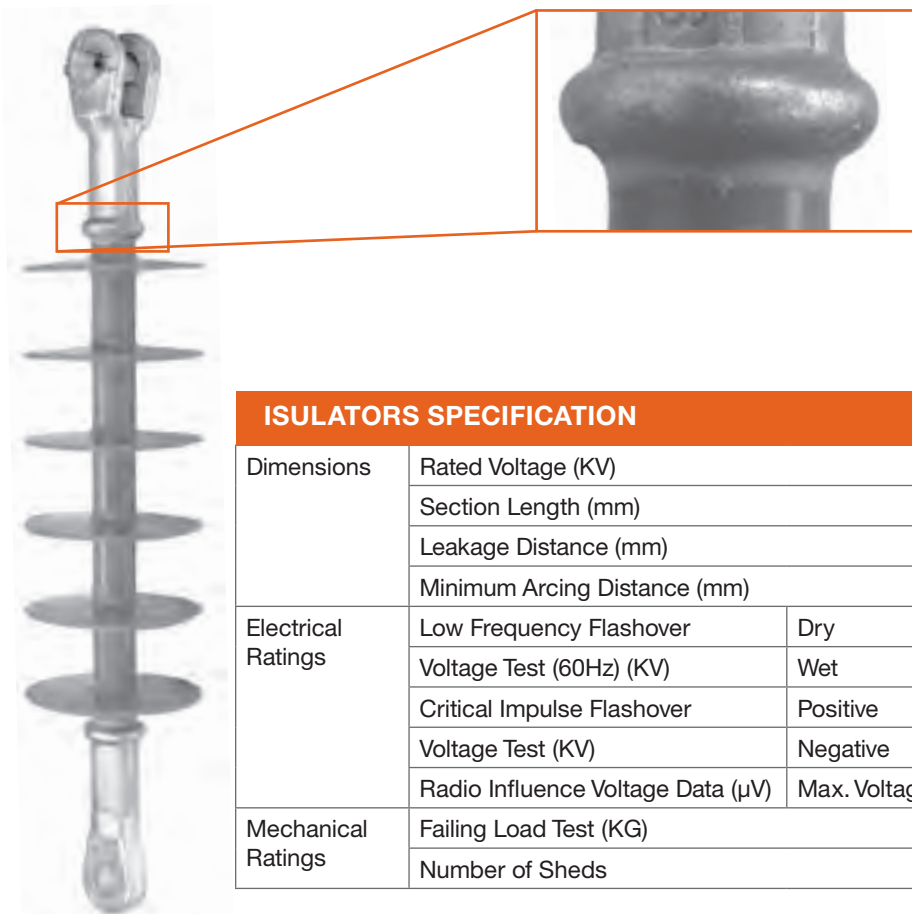


**SILICONE COMPOSITE INSULATORS** combine the technologies of a fiberglass reinforced rod, metal fittings and our extensive knowledge of elastomeric insulation to produce a high quality composite insulator. Since 1980, thousands of Silicone Insulators have been installed by utilities worldwide in a variety of environments. Continued outstanding performance is proof of their superior quality and design.

**DESIGN:** Unibody Design insulators are one-piece injection molded directly to the rod and sealed to the end fittings with a bead of silicone to give the insulator high dielectric strength and protect it from all environmental conditions. This design is used for standard distribution dead end/suspension insulators.

**FIBERGLASS ROD:** A high quality fiberglass reinforced rod is the core of every insulator with ultimate mechanical strength at least twice the maximum working load.

**END FITTINGS:** Standard distribution dead/end suspension units are supplied with clevis and tongue fittings meeting ANSI C29 specifications. Ball, socket and eye fittings are also available. All are made of hot dipped galvanized high strength carbon steel and have an ultimate tensile strength rating of 15,000 pounds. All end fittings on dead/end suspension insulators are attached by compression. Every insulator is proof tested to verify the crimp.



Unibody insulators have end fittings sealed with silicone to eliminate any possibility of moisture or contamination from reaching the fiberglass rod.

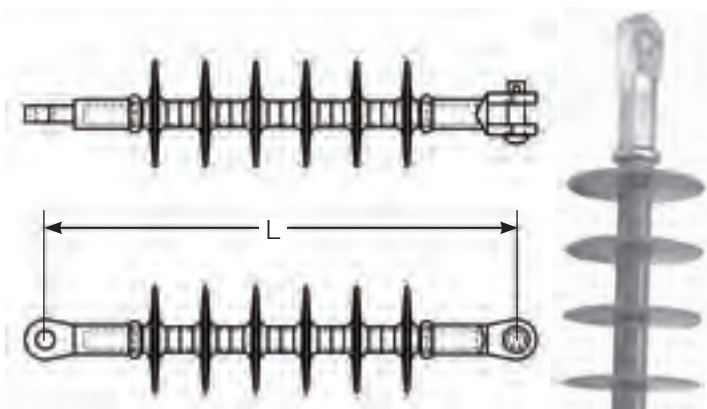
## ISULATORS SPECIFICATION

Dimensions	Rated Voltage (KV)		15	25	35
	Section Length (mm)		345 ± 15	430 ± 35	525 ± 55
	Leakage Distance (mm)		430	640	850
	Minimum Arcing Distance (mm)		210	301	398
Electrical Ratings	Low Frequency Flashover	Dry	100	131	166
	Voltage Test (60Hz) (KV)	Wet	82	111	138
	Critical Impulse Flashover	Positive	159	221	279
	Voltage Test (KV)	Negative	185	251	320
	Radio Influence Voltage Data (µV)	Max. Voltage	< 1	< 1	< 1
Mechanical Ratings	Failing Load Test (KG)		>7000	>7000	>7000
	Number of Sheds		4	6	8

## SI SERIES SILICONE INSULATOR

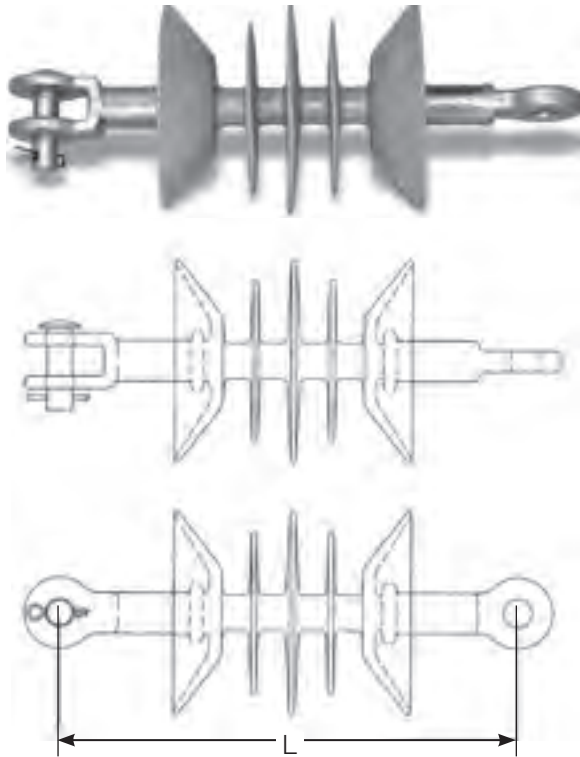
### 15KV TO 35KV DEAD END/SUSPENSION, TONGUE & CLEVIS

**THE SI SERIES OF SILICONE INSULATORS** features a silicone formulation weathershed material. Salisbury combined the excellent hydrophobic and electrical qualities of silicone with an optimum weathershed design and corrosion resistant fiberglass rod to produce a state-of-the-art insulator which meets or exceeds industry requirements. The insulators were tested in accordance with ANSI C29 and IEC1109. End fittings are hot dipped galvanized high strength carbon steel, providing a 15,000 pound ultimate tensile strength. 100% proof testing ensures trouble-free installation. **RUS ACCEPTED.**



		9501U-SI	9502U-SI	9503U-SI
<b>Class</b>		DS-15	DS-28	DS-35
<b>No. of Weathersheds</b>		4	6	8
<b>Length-in ( m )</b>		13.5 ( .34 )	17.5 ( .45 )	21.3 ( .54 )
<b>Dia. of Weathersheds-in ( mm )</b>		3.8 ( 97 )	3.8 ( 97 )	3.8 ( 97 )
<b>Leakage Distance-in ( m )</b>		17.1 ( .44 )	26 ( .66 )	35.1 ( .89 )
<b>Dry Arc Distance-in ( m )</b>		8.4 ( .22 )	12.13 ( .31 )	16 ( .41 )
<b>Flash Over Voltage</b>	Critical Impulse, Pos	173	217	258
	Critical Impulse, Neg	250	310	340
	Dry, 60 Hz	97	145	168
	Wet, 60Hz	67	115	137
<b>Radio Influence</b>	Test, kV Ground	15	25	25
	Max RIV-1000kHz $\mu$ V	1	1	$\mu$ V
<b>Ultimate Strength</b>	lbs.	15,000	15,000	15,000
<b>FRP Rod Dia.-in ( mm )</b>		.73 ( 18.63 )	.73 ( 18.63 )	.73 ( 18.63 )
<b>Typ. Appl-kV, <math>\emptyset</math>-<math>\emptyset</math></b>		15	27	35
<b>Net Weight ea.-lbs. ( kgs )</b>		2.6 ( 1.20 )	3.1 ( 1.39 )	3.5 ( 1.57 )

Unibody insulators have end fittings sealed with silicone to eliminate any possibility of moisture or contamination from reaching the fiberglass rod.



The **9502L-EP SILICONE INSULATOR** combines two essential characteristics: Performance and Innovation

**PERFORMANCE** - The 9502L-EP is the only composite insulator manufactured as a replacement for two 10" (254mm) porcelain disks. Installation is limited to horizontal dead-end applications only.

**INNOVATION** - Unlike any other insulator on the market, the unique shed design of the 9502L-EP minimizes the material content without compromising electrical or dimensional requirements.

End fittings are hot dipped galvanized high strength carbon steel.

Must be used as a dead end insulator only.

**RUS ACCEPTED.**

		<b>9502L-EP</b>
<b>No. of Weathersheds</b>		5
<b>Length-in ( m )</b>		11.5 ( . 29 )
<b>Dia. of Weathersheds-in ( mm )</b>		5 ( 127 )
<b>Leakage Distance-in ( m )</b>		22 ( . 56 )
<b>Electrical</b>	Critical Impulse	189
<b>Ratings</b>	Dry, 60 Hz	116
<b>kV</b>	Wet, 60 Hz	92
<b>Radio</b>	Test--kV Ground	20
<b>Influence</b>	Max RIV--1000Hz $\mu$ V	1
<b>Typ. Appl--kV, <math>\emptyset</math>-<math>\emptyset</math></b>		27
<b>Ultimate Strength-SML- lbs / kN</b>		15000 / 70
<b>Net Weight ea.-lbs ( kgs )</b>		2.8 ( 1.3 )

# National Disaster Response Program

## After Hours Emergency Customer Service



*Do you know what to do  
in times of disaster?*

*Do you know who to contact  
in case of emergency?*

**You can count on Salisbury,  
to be there when you need it most.**



Salisbury understands your safety needs. But, Salisbury also understands that your safety needs don't always happen between 9 am and 5 pm. This is why Salisbury has developed the National Disaster Response Emergency Contact.

Salisbury's National Disaster Response will be able to help your emergency safety product orders and customer service needs. While facing national disasters and weather related catastrophes, Salisbury will be there.

### **NATIONAL DISASTER RESPONSE PROGRAM: After Hours Emergency Customer Service**

You can now contact Salisbury after regular business hours during severe emergencies using our new **NATIONAL DISASTER RESPONSE** Contact Line. This new contact line allows product ordering, even after-hours and weekends. A National Disaster Response Team is ready to fulfill your emergency order requirements around the clock during national and international severe weather or natural disasters such as Winter Ice Storms, Tornadoes, Tropical Storms, Hurricanes and Earthquakes.

Our team is ready to fulfill emergency orders of Personal Protective Equipment and Linemen Utility Products required to (1) Restore electrical power and utilities to U.S. and Global regions as a result of natural disaster and (2) provide Personal Protective Equipment to the Industrial or Utility work force resulting from natural disaster.

National Disaster Response emergency contact  
for after-hours and weekend emergencies as defined above.

**866-957-7515**

*National Disaster Response After-Hours  
Emergency Contact*

Salisbury Customer Service Department  
in Bolingbrook, IL during regular business hours:

**877-406-4501**

*Monday - Friday 7:30 am - 5:00 pm  
Central Standard Time*

# VOLTAGE DETECTORS





# VOLTAGE DETECTORS

## VOLTAGE DETECTION APPLICATION CHART

### GREEN - RECOMMENDED FOR USE.

The cells highlighted in green identify appropriate detector settings for a given system voltage.

### YELLOW - SUITABLE FOR USE ONLY UNDER SPECIAL CIRCUMSTANCES.

The cells highlighted in yellow may be used in special circumstances. These circumstances may include the detection of voltage on an under-built circuit with induced voltage sufficient to cause a detection alarm. For example: In the 25kV setting the tester may not detect lower voltages at the required 8 to 10 inches from the conductor. However it may detect lower induced voltage, e.g. 5kV at 1" from the conductor.

### RED - NEVER SELECT A DETECTOR SETTING INDICATED BY A RED CELL FOR A GIVEN SYSTEM VOLTAGE.

The detector may not indicate voltage present and serious injury or death may result.

## SALISBURY

by Honeywell

Detector setting	System Voltage - (Phase to Phase/Phase to Ground)																	
	4160 2400	8320 4800	12000 6930	12470 7200	13200 7620	13800 7970	20780 12000	22860 13200	24940 14400	34500 19920	46000 26560	69000 39840	115000 66400	138000 79670	161000 92950	230000 132790	345000 199190	500000 288680
240 v	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
4.2kV	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
15kV	Red	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
25kV	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
35kV	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
46kV	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green
69kV	Red	Red	Red	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
115kV	Red	Red	Red	Red	Red	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green
230kV	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Yellow	Yellow	Green	Green	Green	Green	Green
345kV	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Green	Green
500kV	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Green
URD TEST POINTS ONLY																		
15kV URD	Red	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
25kV URD	Red	Red	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
35kV URD	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green

The above matrix identifies Salisbury by Honeywell Models 4244, 4544, 4344, 4644, 4444, 4744, voltage detector applications settings for given system voltage. By selecting a detector voltage higher than the system voltage setting, the sensitivity of the detector is reduced and it may not detect the system voltage tested. Always install an appropriate grounding system before working on any conductors.

CAT. NO.		DIMENSIONS	SETTINGS	WEIGHT EA.
STD. MODEL	SELF TEST MODEL	in. (mm)	PHASE TO PHASE	lbs. (kgs)
4244	4544	11 x 3.5 (279.4 x 89)	Off / 240 V / 4.2 kV / 15 kV / 25 kV / 35 kV / 69 kV / 115 kV / 230 kV	0.937 (.43)
4344	4644	11 x 3.5 (279.4 x 89)	Off / 240 V / 4.2 kV / 35 kV / 69 kV / 115 kV / 230 kV / 345 kV / 500 kV	0.937 (.43)
4444	4744	11 x 3.5 (279.4 x 89)	Off / Test-240 V / Battery / URD:15 kV / 25 kV / 35 kV Overhead: 4.2 kV / 15 kV / 25 kV / 35 kV / 46 kV / 69 kV	0.937 (.43)

## FAQ

**Q:** Are there any precautions, besides wearing the proper safety equipment, when using voltage detectors?

**A:** Yes, do not assume conductors that have been tested de-energized will stay de-energized. Always install proper grounding devices before working. Failure to do so may result in serious injury or death.



**SELF TESTING VOLTAGE DETECTOR KITS** - Salisbury's self-testing voltage detectors allow testing to be continuous and automatic. An intermittent flash and beep confirms the detector is functioning properly.

Self-testing voltage detectors are used to verify live or de-energized conductors. These detectors may be used with insulating rubber gloves or hotsticks using the splined universal end fitting. Testers indicate voltage with an extra bright LED light and a distinctive audible signal. It is recommended that the tester be moved closer to the conductor until a warning is indicated, or it touches the conductor, apparatus or test point. Each tester includes three "C" batteries.

The need for additional PPE can be minimized by confirming that there is no electrical hazard present before work is performed. This can be determined by using a Salisbury voltage detector attached to a insulating hotstick of a length long enough to keep the worker outside of the arc flash boundary.

The Salisbury voltage detector alarms in the proximity of electric fields, so that it is not necessary to make physical contact with the equipment being checked. It is made of non-conductive materials, meaning that it will not conduct electricity nor will it cause an arc flash, even if contact with energized equipment is made.

### WARNING



Do not assume conductors that have been tested de-energized will stay de-energized. Always install proper grounding devices before working. Failure to do so may result in serious injury or death.

CAT. NO.	DIMENSIONS in. (mm)	SETTINGS PHASE TO PHASE	WEIGHT EA. lbs. (kgs)
4544	11 x 3.5 (279.4 x 89)	Off / 240 V / 4.2 kV / 15 kV / 25 kV / 35 kV / 69 kV / 115 kV / 230 kV	15 oz. (.4)
4644	11 x 3.5 (279.4 x 89)	Off / 240 V / 4.2 kV / 35 kV / 69 kV / 115 kV / 230 kV / 345 kV / 500 kV	15 oz. (.43)
4744	11 x 3.5 (279.4 x 89)	Off / Test-240 V / Battery / URD:15 kV / 25 kV / 35 kV Overhead: 4.2 kV / 15 kV / 25 kV / 35 kV / 4 6kV / 69 kV	15 oz. (.43)
4745	11 x 3.5 (279.4 x 89)	Off / Test-240 V / Battery / URD:4.8 kV / 7.2 kV / 16 kV Overhead: 2.4/4.2 kV / 4.8/8.3 kV / 8.0/13.8-7.2 / 12.5 kV / 14.4/25-16/27.6 kV / 44 kV	15 oz. (.43)

### COMPLETE KIT

4556	1-4544 Detector 240 V to 230 kV, 1-21517 Case, 1-2500 Shotgun Adapter	2 (.91)
4667	1-4644 Detector 240 V to 500 kV, 1-21517 Case, 1-2500 Shotgun Adapter	2 (.91)
4769	1-4744 Detector 240 V to 69 kV, 1-21517 Case, 1-2500 Shotgun Adapter	2 (.91)

### ACCESSORIES

2500	Shotgun Adapter	.4 (.2)
21517	12 x 8 x 4.5 (305 x 203 x 114) Storage Case	1 (.45)

# VOLTAGE DETECTORS

## AUDIO / VISUAL

**VOLTAGE DETECTORS** are used to verify live or de-energized conductors. These detectors may be used with rubber insulating gloves or hotsticks using the splined universal end fitting. Testers indicate the presence of voltage with an extra bright LED light and a distinctive audible signal. It is recommended that the tester be moved closer to conductor until warning is indicated, or it touches conductor, apparatus or test point. Test the unit on a nearby energized conductor. Each tester requires three "C" batteries (included).

The **4445 VOLTAGE DETECTOR TESTER** provides the most convenient and reliable means of verifying operation of Salisbury Voltage Detectors. The tester features instant push-button operation and requires a standard 9-volt battery (included). It's portable and lightweight. To operate, push the button and move the tester toward the voltage detector being verified. The tester generates an electric field that activates the detector verifying the audible and visual signals are operational.



### TEST PROCEDURES

#### Test Procedures

To assure unit is in operable condition switch tester into "Test-240V" position. The detector may now be tested in several different ways.

1. Place head as marked against live wire outlet or equivalent above 110 V.A.C.
2. Rub the head as marked on cloth or clothing to obtain static charge. Unit will only indicate intermittently.

### WARNING



**DO NOT ASSUME CONDUCTORS THAT HAVE BEEN TESTED DE-ENERGIZED WILL STAY DE-ENERGIZED. ALWAYS INSTALL PROPER GROUNDING DEVICES BEFORE WORKING. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH.**

CAT. NO.	DIMENSIONS in. (mm)	SETTINGS PHASE TO PHASE	WEIGHT EA. lbs. (kgs)
4244	11 x 3.5 (279.4 x 89)	Off / 240 V / 4.2 kV / 15 kV / 25 kV / 35 kV / 69 kV / 115 kV / 230 kV	15oz. (.43)
4344	11 x 3.5 (279.4 x 89)	Off / 240 V / 4.2 kV / 35 kV / 69 kV / 115 kV / 230 kV / 345 kV / 500 kV	15oz. (.43)
4444	11 x 3.5 (279.4 x 89)	Off / Test-240 V / Battery / URD: 15k V / 25 kV / 35 kV Overhead: 4.2 kV / 15 kV / 25 kV / 35 kV / 46 kV / 69 kV	15oz. (.43)

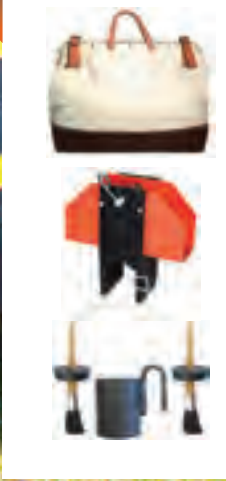
### COMPLETE KIT

4356	-	1-4244 Detector 240 V to 230 kV, 1-21517 Case, 1-2500 Shotgun Adapter	2 (.91)
4367	-	1-4344 Detector 240 V to 500 kV, 1-21517 Case, 1-2500 Shotgun Adapter	2 (.91)
4469	-	1-4444 Detector 240 V to 69 kV, 1-21517 Case, 1-2500 Shotgun Adapter	2 (.91)

### ACCESSORIES

		DESCRIPTION	
2500	-	Shotgun Adapter	.4 (.2)
21517	12 x 8 x 4.5 (305 x 203 x 114)	Storage Case	1 (.45)
4445	-	Voltage Detector Tester	1 (.45)
21600	-	Replacement Handle	-

# ACCESSORIES



# ACCESSORIES



## ALSO AVAILABLE

**Salisbury offers an entire line of Arc Flash Protective Clothing and Equipment ranging from 8 cal/cm<sup>2</sup> to 100 cal/cm<sup>2</sup>.**

Ask your local Salisbury representative for a copy of our Arc Flash Protection Catalog or download it from our website at [www.salisburybyhoneywell.com](http://www.salisburybyhoneywell.com).

**Salisbury also offers Salisbury Insulated Tools and Tool Kits.**

These tools are all tested to 10,000 VAC for use up to 1,000 VAC. These tools meet or exceed ASTM F1505-01 and IEC 900 Standards for Insulated Hand Tools and will help you to be compliant with OSHA 1910.333 (c)(2), and NFPA 70E 2009. Ask your local Salisbury representative for more information or visit our website at [www.salisburybyhoneywell.com](http://www.salisburybyhoneywell.com).





30



50C w/PH55



40

**SALISBURY TOOL BUCKETS** are constructed of extra-heavy-duty canvas duck and reinforced with a one-piece formed leather bottom with a 3" (76 mm) cuff for rugged service and long life. The standard tool buckets, 30 and 40, are both collapsible for easy storage and feature a poly braid rope handle. The 30 features a 6" x 8" interior pocket. The oval tool bucket, 50, designed to attach to aerial baskets, features 6 inner tool pockets and two plastic hanging hooks.

**SALISBURY TOOL BAGS** are useful for carrying and storing all sorts of equipment and tools. Constructed for long life and rugged service from one piece of #8 natural canvas fastened to a steel frame. The vinyl coated nylon bottom is cemented and double stitched to the bag and protected with steel studs and a reinforcing 3.5" (89 mm) cuff. Handles are made from a heavy polypropylene webbing and straps are made of top grain harness leather.

**LINE HOSE AND BLANKET BAGS** are convenient for raising and lowering bulky items up and down a pole, as well as for storage. Constructed of #6 duck, sewn with nylon thread and reinforced with a heavy rubber bottom. Features a top ring to hold the bag open and a strong 1/2" (12.7 mm) poly braid rope handle, reinforced with polymer. 8" (178 mm) diameter bags are used for conventional style line hose, while the 12" (305 mm) diameter bags were designed for Class 4 extended lip line hose.

CAT. NO.	DIMENSIONS in. (mm)	WEIGHT EA. lbs. (kgs)
<b>STANDARD TOOL BUCKETS</b>		
30	12 x 16 (305 x 406)	3.2 (1.45)
40*	8 x 14 (203 x 356)	2 (.91)
<b>OVAL TOOL BUCKET</b>		
50C*	7 x 14 x 10 (1715 x 356 x2 54)	2.5 (1.14)
PH55	yellow vinyl hooks for #50C	.5 (.23)
<b>STANDARD TOOL BAGS- 5.5" (140 mm) WIDE</b>		
616	16 x 13.5 (406 x 343)	3.3 (1.5)
618	18 x 15.5 (457 x 394)	3.8 (1.73)
620	20 x 15.5 (508 x 394)	4.2 (1.91)
622	22 x 15.5 (559 x 394)	4.3 (1.95)
624	24 x 15.5 (610 x 394)	4.5 (2.04)
<b>EXTRA WIDE TOOL BAGS-9.5" (241 mm) WIDE</b>		
2419B	24 x 19 (610 x 483)	4.1 (1.86)
<b>LINE HOSE BAGS</b>		
48*	8 x 48 (178 x 1219)	2.8 (1.27)
60*	8 x 60 (178 x 1524)	3.0 (1.36)
66*	8 x 66 (178 x 1676)	3.3 (1.5)
72*	8 x 72 (178 x 1829)	3.5 (1.59)
1248*	12 x 48 (305 x 1219)	3.8 (1.73)
1266*	12 x 66 (305 x 1676)	5.3 (2.41)
<b>BLANKET BAG</b>		
1230	12 x 30 (305 x 762)	3.2 (1.45)

\*add suffix "S" if optional iron swivel snap is desired

## ACCESSORIES & SPECIAL EQUIPMENT

**COMPOUND POTS** are made of hard rubber that is non-conductive and breakage resistant. The applicator brush and compound are held in one unit that can be hung from aerial devices or fit into cross arm holes. Offered in single and double compartment styles.

**CABLE BANDAGES** provide temporary insulation for bare conductors and splices. A single thickness of the orange SALCOR® Bandage can withstand 15kV on puncture test. The black neoprene bandage is intended to provide fast and complete temporary cover for cable splicers.

**INSULATING SADDLES** are ideal for temporary or emergency line work such as stringing light conductors over short spans. The large 3" (76 mm) upper saddle opening will hold bare or insulated conductors in either an upright or inverted position. The IS10 has a voltage rating of 15kV. When necessary to leave energized conductors or jumpers in the saddle for extended periods, it is recommended that they be encased in orange SALCOR® Rib-Grip® line hose. Molded of hard rubber and furnished with two nylon holding pins supplied with steel loops for easy hot-stick application. A 12" (305 mm) orange plastic shoe is affixed to the crossarm opening to help prevent flashover during inclement weather. Designed to fit crossarms with dimensions up to 3.75" x 5" (95 mm x 127 mm).

**BELT HOOK/BREAK-AWAY** is non-conductive yellow nylon hand-line belt hook that will bend or break if suddenly pulled.

**CLIMBER GUARDS** are furnished un-slit to accommodate any length, regular or adjustable climbers. Sold in pairs only.

CAT. NO.	DESCRIPTION in. (mm)	WEIGHT EA. lbs. (kgs)
<b>COMPOUND POT SINGLE COMPARTMENT</b>		
PJB1	1 pt. w/ bristle brush, 4.5" x 3.5" (114 x 89)	1.5 (.681)
PJB2	1 pt. w/ wire brush, 4.5" x 3.5 (114 x 114)	1.5 (.681)

<b>CABLE BANDAGES</b>		
414PG	Pure Gum Rubber, 14' (4.3 m) w/o strap	1 (.5)
414BN	Black Neoprene, 14' (4.3 m) w/o strap	1 (.5)

<b>INSULATING SADDLE</b>		
IS10	11.25 x 4.75 (286 x 121)	4 (1.8)
ISP	Replacement Pin	.25 (.1)

<b>BELT HOOK / BREAK-AWAY</b>		
H7	Break-Away Belt Hook	1 oz. (.03)

<b>CLIMBER GUARDS</b>		
21187	Sold in pairs	.5 (.23)



# HAND LINES, HAND LINE ASSEMBLIES & LINE HOOKS



42



149H



40H



40HPP



40SHB



27



27A



27S

Premium all-purpose **HAND LINE** is a light weight and durable three-strand laid rope. Filament polyester yarns are “jacket-wrapped” over mono-filament polypro center yarns, providing excellent abrasion resistance and gripping properties with moderate elongation. When used properly, polydac is perfect for capstans, block and tacklework, and many other rough applications. Other lengths available.

**HAND LINE ASSEMBLIES WITH POLYDAC ROPE** is used for lifting objects to the lineman on the pole.

**HOOKS** are used for snatch and hand line blocks. **STEEL LINE HOOKS** designed to hug the conductor when strain is applied to rope after splicing rope into the eye. Hooks will not damage conductor or fall off, and are easily applied and removed.

CAT. NO.	DIAMETER in. (cm)	LENGTH ft. (m)	APPROX. TENSILE STRENGTH lbs. (kgs)	WEIGHT / REEL lbs. (kgs)
<b>POLYPROPYLENE AND POLYESTER (POLYDAC) ROPE</b>				
5000E600	1/2 (1.3)	600 (82.9)	5,400 (2,449)	40 (18.1)

CAT. NO.	DESCRIPTION	TOTAL ROPE LENGTH ft. (m)	FOR POLE HEIGHT lbs. (kgs)	WEIGHT lbs. (kgs)
<b>HAND LINE ASSEMBLIES WITH POLYDAC ROPE</b>				
1491250	Standard Hand Line, Fixed Sling	100 (30.5)	50 (15.2)	11 (4.99)
1492375	Standard Hand Line, Adjustable Sling	150 (45.8)	75 (22.9)	13 (5.90)
1494250	Alternate Hook Assembly, Adjustable Sling	100 (30.5)	50 (15.2)	11 (4.99)
1494375	Alternate Hook Assembly, Adjustable Sling	150 (45.8)	75 (22.9)	13 (5.90)

CAT. NO.	DESCRIPTION	WLL lbs. (kgs)	WEIGHT lbs. (kgs)
<b>PARTS</b>			
42	Hand Line Block (only)	-	2 (0.91)
149H	Hook for Hand Line (only)	500 (226.79)	1 (0.45)
149S	Swivel Snaps (only)	-	1 (0.45)

CAT. NO.	DESCRIPTION	OPENING SIZE in. (cm)	WLL lbs. (kgs)	WEIGHT lbs. (kgs)
<b>HOOKS</b>				
40H	Pointed Hook	1,000 (454)	-	1 (0.45)
40HPP	Pointed Hook	1,000 (454)	-	1 (0.45)
40SHB	Swivel Hook	1,000 (454)	-	1 (0.45)

CAT. NO.	DESCRIPTION	OPENING SIZE in. (cm)	WLL lbs. (kgs)	WEIGHT lbs. (kgs)
<b>LINE HOOKS</b>				
27	Small	7/8" (2.2 cm)	1,000 (454)	1 (0.45)
27A	Medium	1-1/2" (3.8 cm)	1,325 (601)	2 (0.91)
27S	Large	2" (5.1 cm)	1,650 (748)	3 (1.36)



## BLOCKS & SAFETY HOOKS

**BLOCKS** are made of high strength aluminum alloy. The hand line block has a 5/8" (1.6 cm) diameter rope maximum. "S" denotes side opening block. Other hooks are available.

**WOOD SHELL BLOCKS** are used with polypropylene or synthetic rope. The 4" blocks have a 1/2" (1.3 cm) diameter rope maximum; the 5" blocks a 5/8" (1.6 cm) maximum; and the 6" blocks a 3/4" (1.9 cm) maximum.

Single blocks are fitted with a swivel hook; double and triple block with a loose, flat hook. Swivel hooks are not recommended on double or triple blocks. The double and triple blocks are fitted with a special live line pin so they can easily be handled with an alligator stick (Cat. No. 4FGQ).

**NYLON BLOCKS** are light-weight and self-lubricating. The nylon blocks will handle 1/2" (1.3 cm) diameter rope and smaller.

**WARNING: DO NOT EXCEED THE WORKING LOAD LIMIT.**

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)	WLL lbs. (kgs)
<b>BLOCKS</b>			
42A	Aluminum Hand Line Block with Pointed Hook	3 (1.36)	1,000 (454)
42S	Aluminum Snatch Block	2 (0.91)	1,000 (454)
42SA	Aluminum Snatch Block with Pointed Hook	3 (1.36)	1,000 (454)
<b>WOOD SHELL BLOCKS - SINGLE BLOCK WITH SWIVEL HOOK &amp; BECKET</b>			
904	4" (10.2 cm)	2 (0.91)	1,000 (454)
<b>WOOD SHELL BLOCKS - DOUBLE BLOCK WITH FLAT HOOK, BECKET &amp; SWIVEL</b>			
284A	4" (10.2 cm)	3 (1.36)	1,400 (635)
285A	5" (12.7 cm)	5 (2.27)	1,800 (816)
286A	6" (15.2 cm)	8 (3.63)	2,500 (1,134)
<b>NYLON BLOCKS</b>			
3101E	Single Block with Swivel Hook & Becket	1 (0.45)	500 (227)
3102W	Double Block with Flat Hook & Becket	2 (0.91)	1,000 (454)
<b>SAFETY HOOK</b>			
4003SH	Conductor Lifting Hook	6.2 (2.8)	2,000 (907)



42S



4003SH

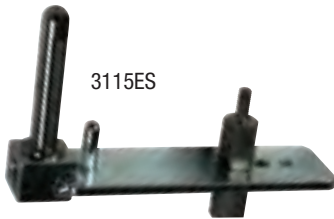
26K



26E



3115ES



266

**FABRICATED ARM SLINGS** are used as an all-purpose sling for non-energized and live line work, the fabricated arm sling is made to fit snugly over the arm by using the filler plates (included) to adjust the opening. Weight - 6 lbs. (2.7 kgs).

**DOUBLE ARM SLINGS** are made for dead ending. Adjustable to cross arms 4" to 5" (10.2 to 12.7 cm) wide and 5" to 6" (12.7 to 15.2 cm) high, the double arm sling can be installed with insulating sticks. Weight - 15 lbs. (6.8 kgs).

The **POLE ADAPTER KIT** is a mounting bracket that safely attaches a saw to the pole. The saw pivots on a plate which is attached to the side of the saw. The pole adapter has a chain tightening base, and a safety stop to halt the swing of the saw after the cut has been made. Use this adapter kit while cutting off sections of a pole when the pole has to be removed. Chain saw not included.

The **POLE DRAW BAR** attaches to the pole by placing the end stop of the bar against the end of the pole. Secure the bar to the pole with the two chain and screw binders affixed to the bar. The pole draw bar is supplied with lifting handles on each side and a safety loop through which a chain is attached. The oval hole is large enough to fit all hitches. (Check local vehicle safety chain regulations.)

9300 - SAFE TOWING CAPACITY: 10,000 LBS. (4,530 Kgs).

9301 - SAFE TOWING CAPACITY: 15,000 LBS. (6,804 Kgs).

CAT. NO.	DESCRIPTION / OPENING SIZE in. (cm)	WLL lbs. (kgs)
<b>FABRICATED ARM SLINGS</b>		
26E	4 x 6 (10.2 x 15.2)	2,000 (907)
26G	5 x 6 (12.7 x 15.2)	2,000 (907)
26K	6 x 6 (15.2 x 15.2)	2,000 (907)
<b>DOUBLE ARM SLING</b>		
266	With 2 Steel Snatch Blocks	750 (340)

# National Disaster Response Program

## After Hours Emergency Customer Service



*Do you know what to do  
in times of disaster?*

*Do you know who to contact  
in case of emergency?*

**You can count on Salisbury,  
to be there when you need it most.**



Salisbury understands your safety needs. But, Salisbury also understands that your safety needs don't always happen between 9 am and 5 pm. This is why Salisbury has developed the National Disaster Response Emergency Contact.

Salisbury's National Disaster Response will be able to help your emergency safety product orders and customer service needs. While facing national disasters and weather related catastrophes, Salisbury will be there.

### **NATIONAL DISASTER RESPONSE PROGRAM: After Hours Emergency Customer Service**

You can now contact Salisbury after regular business hours during severe emergencies using our new **NATIONAL DISASTER RESPONSE** Contact Line. This new contact line allows product ordering, even after-hours and weekends. A National Disaster Response Team is ready to fulfill your emergency order requirements around the clock during national and international severe weather or natural disasters such as Winter Ice Storms, Tornadoes, Tropical Storms, Hurricanes and Earthquakes.

Our team is ready to fulfill emergency orders of Personal Protective Equipment and Linemen Utility Products required to (1) Restore electrical power and utilities to U.S. and Global regions as a result of natural disaster and (2) provide Personal Protective Equipment to the Industrial or Utility work force resulting from natural disaster.

National Disaster Response emergency contact  
for after-hours and weekend emergencies as defined above.

**866-957-7515**

*National Disaster Response After-Hours  
Emergency Contact*

Salisbury Customer Service Department  
in Bolingbrook, IL during regular business hours:

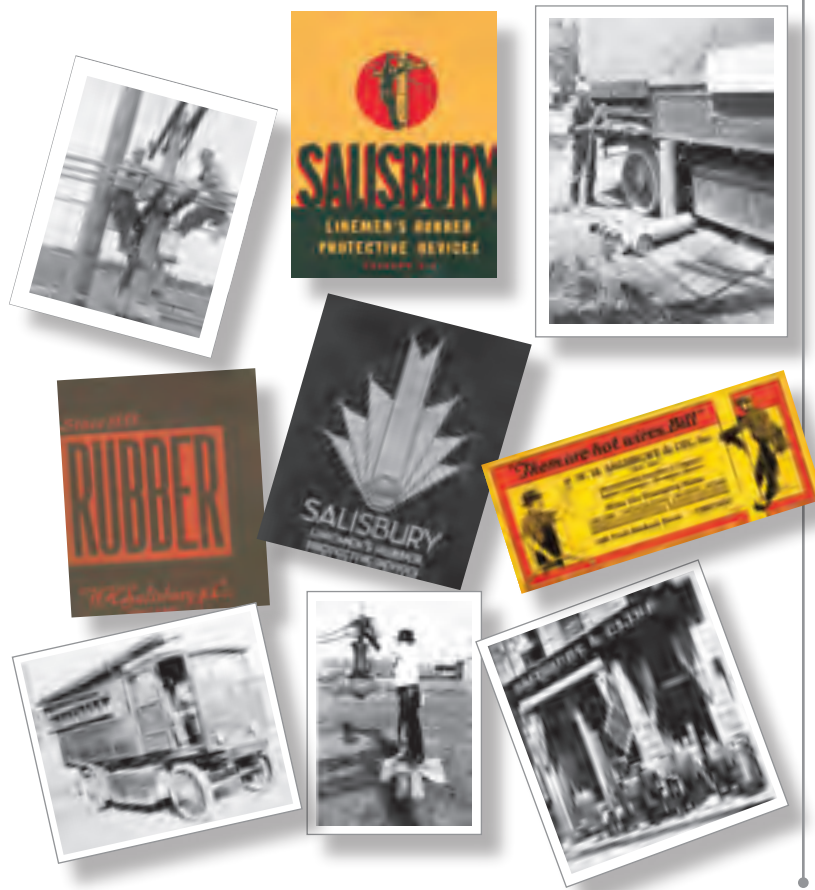
**877-406-4501**

*Monday - Friday 7:30 am - 5:00 pm  
Central Standard Time*

**Salisbury has been setting industry standards since 1855. For over 150 years, Salisbury Electrical Safety and its predecessors has been the name an entire industry trusts to provide the finest safety products available. Salisbury pioneered the manufacturing of linemen's Rubber Protective Equipment in the early 1920's.**

Back in the early 1900's, Salisbury was approached by a local utility in the Chicago area about general safety. The question raised was how to create a safer working environment for linemen working on energized lines. Salisbury worked with the local utility by taking garden hose and cutting them lengthwise in a way that would cover the lines. These hoses were then secured by electrical tape and this led to the Salisbury patent of line hose in 1924. Over the years, line hose has evolved into the high-quality SALCOR® rubber product you have come to expect.

Today, **Salisbury and its Salisbury by Honeywell brand products are the leaders in Personal Electrical-Safety Protection.** We know that lives depend on the quality of our products, Salisbury's production facilities are **all ISO 9001:2008 registered** and are equipped and staffed to manufacture products which conform to the highest possible standards. This has allowed Salisbury by Honeywell to become the **world-wide leader in electrical safety equipment.** Salisbury has three plants which manufacture Personal Protective Equipment, Hot Line Equipment, and SALVAR® Polymer Insulators. Salisbury produces its rubber products in its own plants using four methods of rubber manufacturing: Injection Molding, Compression/Transfer Molding, Extruding and Dipping. Salisbury dedication to quality has also been carried over to the manufacturing of Hot Line Tools and SALVAR® Insulators. As a result, **the name Salisbury by Honeywell on safety products is your assurance that you are using the finest equipment available for the job.**



- 1855 Founded in Chicago by John B. Idson. First organization in the Mid-West serving as an independent rubber products dealer.
- 1871 After a complete loss in the great Chicago Fire, organization opens with a belting and hose line of products. Company becomes Salisbury & Cline.
- 1880 Company becomes W.H. Salisbury & Co.
- 1902 Established leather belt factory.
- 1902 Linemen regularly use W.H. Salisbury & Co. garden hoses slit lengthwise and secured with electrical tape as personal protective equipment.
- 1904 W. H. Salisbury & Co. Incorporates
- 1912 Organized electrical safety movement begins and creates Safety Departments and employs Safety Inspectors.
- 1915 First molded Rubber Insulating Blanket made by W.H. Salisbury & Co.
- 1919 A rubber mill was erected to manufacture molded and extruded rubber products.
- 1921 A local utility discusses lineman safety needs with W.H. Salisbury & Co. after a fatal accident occurs.
- 1922 Manufacturing of full utility line of products begins.
- 1922 W.H. Salisbury & Co. first perfects and begins to offer Rubber Insulating Line Hose.
- 1923 W.H. Salisbury & Co. first perfects and begins to offer Insulator Hoods.
- 1924 W.H. Salisbury & Co. patents Line Hose design.
- 1926 W.H. Salisbury & Co. patents Insulator Hood design.
- 1929 Rubber mill and belt factory were expanded and an adjoining building, including warehouse and offices, was constructed.
- 1929 W.H. Salisbury & Co. patents Insulating Stool.
- 1932 W.H. Salisbury & Co. patents Rubber Insulating Sleeve design.
- 1933 Began distributing industrial rubber goods as well as continuing manufacturing.
- 1941 W.H. Salisbury & Co. patents Leather Protectors for Linemen's Rubber Gloves.
- 1943 W.H. Salisbury & Co. patents Coupling for Linemen's Protective Devices.
- 1948 Charleston, SC factory established manufacturing insulating gloves.
- 1960 W.H. Salisbury & Co. patents Protective Device design.
- 1960 Addison, IL plant opens in early 1960's
- 1962 W.H. Salisbury & Co. patents Protective Cover design.
- 1972 Skokie, IL plant and offices open.
- 1980 Grounding equipment, hotsticks and insulators are added to product line in the 1980's
- 1999 North Hand Protection and W.H. Salisbury & Co. hand protection merge under the Salisbury name.
- 2001 Arc Flash Protection garments and equipment added to product line.
- 2005 W.H. Salisbury & Co. patents Insulating Blanket design.
- 2005 Company becomes Salisbury Electrical Safety, LLC
- 2006 Salisbury Electrical Safety, LLC patents Locking Clamp Assembly design.
- 2006 Salisbury Electrical Safety, LLC patents Clamp Pin for Use by Electrician or Electrical Line workers.
- 2007 Salisbury Electrical Safety, LLC patents Rubber Insulating Blanket & Method.
- 2008 Salisbury Electrical Safety, LLC becomes part of Honeywell International.
- 2009 Salisbury moves Chicago, IL manufacturing plant and Skokie, IL corporate offices to a new facility in Bolingbrook, IL.

## SALISBURY BY HONEYWELL LINE EQUIPMENT



**WARNING:** This Utility Products catalog provides only an overview of the products shown. It does not provide important product warnings and instructions. Salisbury recommends all users of its products undergo thorough training and that all warnings and instructions provided with the products be thoroughly understood prior to use. Salisbury by Honeywell line equipment should be used only by electrical workers who have been thoroughly trained in its correct and safe use. It is necessary to assess hazards in the work environment and to match the appropriate personal protective equipment to particular hazards that may exist. At a minimum, a complete and thorough hazard assessment must be conducted to properly identify the appropriate personal protective equipment to be used in a particular work environment. **FAILURE TO READ AND FOLLOW ALL PRODUCT WARNINGS AND INSTRUCTIONS AND TO PROPERLY PERFORM A HAZARD ASSESSMENT MAY RESULT IN SERIOUS PERSONAL INJURY, ILLNESS OR DEATH.**

This catalog contains information, data, documents, pages and images (“Information”) prepared by Salisbury Electrical Safety, LLC (“Salisbury”).

The Information is made available on the understanding that Salisbury and its officers, directors, employees and agents shall have no liability to the users of products set forth herein for any loss, damage, cost or expense incurred or arising out of such person’s use or reliance on the Information, whether caused by reason of any error, negligent act, omission or misrepresentation in the Information or otherwise.

Although Salisbury has prepared the Information contained in this catalog with all due care, Salisbury does not warrant or represent that the Information is free from any errors or omissions.

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## LIMITED WARRANTY

Salisbury by Honeywell Line Equipment is warranted for a period of twelve (12) months from the date of shipment of the products to be free from defects and meet or exceed the current ASTM standards. Our only obligation will be, at our option, to replace any portion proved defective or to refund the purchase price thereof. The buyer assumes all other risk, if any, such as the risk of any direct, indirect or consequential loss or damage arising out of the use of, or inability to use, these products.

**THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND MAY NOT BE VARIED OR EXTENDED EXCEPT IN WRITING BY AN AUTHORIZED OFFICIAL OF SALISBURY.**

**SALISBURY BY HONEYWELL IS AVAILABLE WORLD WIDE.**

Salisbury by Honeywell has manufacturing facilities, distributors, and/or representatives located throughout the United States and the world. Safety is our priority and we understand it is your priority too. It is important to us that you are able to reach us no matter where you are. Salisbury by Honeywell has become a world leader in the manufacture and distribution of personal electrical safety products. No matter where you are in the world, Salisbury has you covered. Salisbury by Honeywell is there for you when you need us most.

To find your local distributor or representative, please visit our website to get up-to-date contact information.

[www.salisburybyhoneywell.com](http://www.salisburybyhoneywell.com)



**ASTM Specifications for Salisbury Equipment**

**GLOVES, SLEEVES AND FOOTWEAR**

- ASTM D120** Standard Specification for Rubber Insulating Gloves
- ASTM D1051** Standard Specification for Rubber Insulating Sleeves
- ASTM F696** Standard Specification for Leather Protectors for Rubber Insulating Gloves and Mittens
- ASTM F496** Standard Specification for In-Service Care of Insulating Gloves and Sleeves
- ASTM F1116** Standard Test Method for Determining Dielectric Strength of Dielectric Footwear
- ASTM F1117** Standard Specification for Dielectric Footwear

**INSULATING BLANKET, MATTING AND SHEETING**

- ASTM D 178** Standard Specification for Rubber Insulating Matting
- ASTM D1048** Standard Specification for Rubber Insulating Blankets
- ASTM F479** Standard Specification for In-Service Care of Insulating Blankets
- ASTM F2320** Standard Specification for Rubber Insulating Sheeting
- ASTM F1742** Standard Specification for PVC Insulating Sheeting
- ASTM F2676** Test Method for Determining the Protective Performance of an Arc Protective Blanket for Electric Arc Hazards

**LINE HOSE AND COVERS**

- ASTM D1049** Standard Specification for Rubber Insulating Covers
- ASTM D1050** Standard Specification for Rubber Insulating Line Hose
- ASTM F478** Standard Specification for In-Service care of Insulating Line Hose and Covers

**HOTSTICK GROUNDS AND BYPASS JUMPERS**

- ASTM F711** Standard Specification for Fiberglass Reinforced Plastic (FRP) Rod and Tube used in Live Line Tools
- ASTM F1825** Standard Specification for Clampstick Type Live Line Tools
- ASTM F855** Standard Specification for Temporary Protective Grounds to be used on De-energized Electric Power Lines & Equipment
- ASTM F2321** Standard Specification for Flexible Insulated Temporary By-Pass Jumpers
- ASTM F2249** Standard Specification for In-Service Test Methods for Temporary Grounding Jumper Assemblies Used on De-Energized Electric Power Lines & Equipment

**PLASTIC EQUIPMENT**

- ASTM F712** Standard Test Methods and Specifications for Electrically Insulating Plastic Guard Equipment for Protection of Workers

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- ASTM F1236** Guide for Visual Inspection of Electrical Protective Rubber Products

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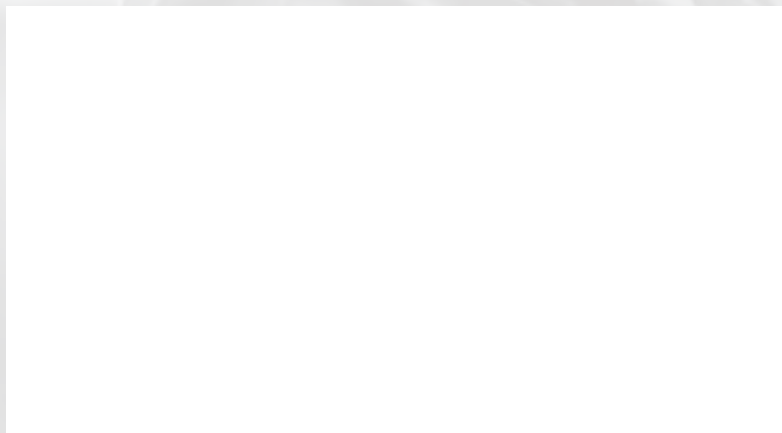
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