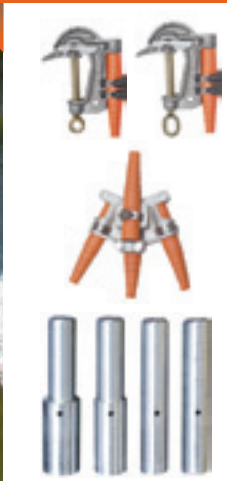


# TEMPORARY PROTECTIVE GROUNDING EQUIPMENT



# 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.

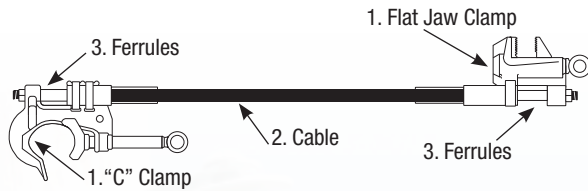
## Grounding Configurator™

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)
----------	-------------------------	--------------------	-----------------	---------------------------	-----------------------

**.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)

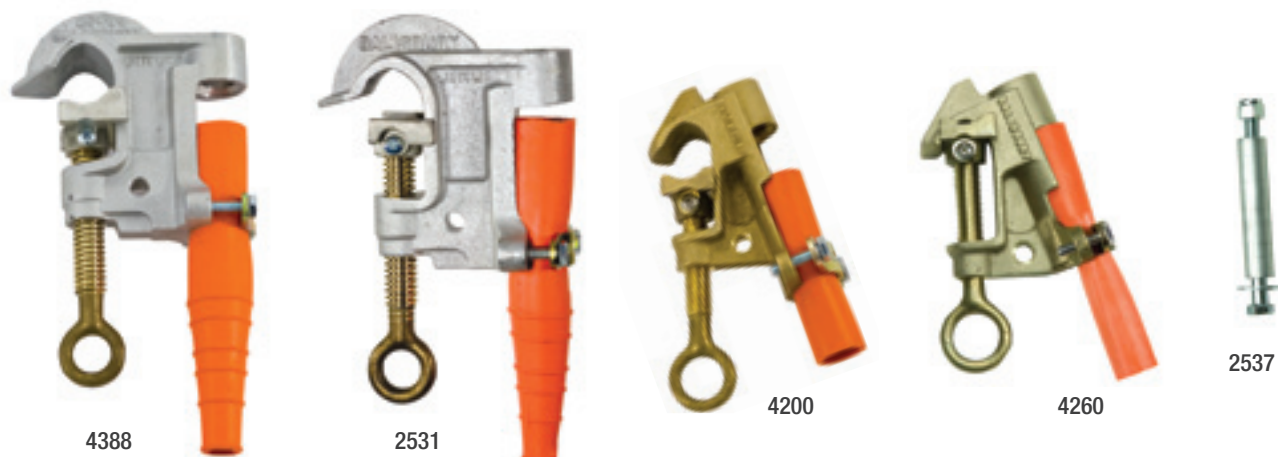
**1.66" SERRATED JAW ALUMINUM DUCK BILL -- ACME THREAD**

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)
------	---	-------	---	---------------------	----------

\*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



9984



24410



1895



21099



2195



9983

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



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.

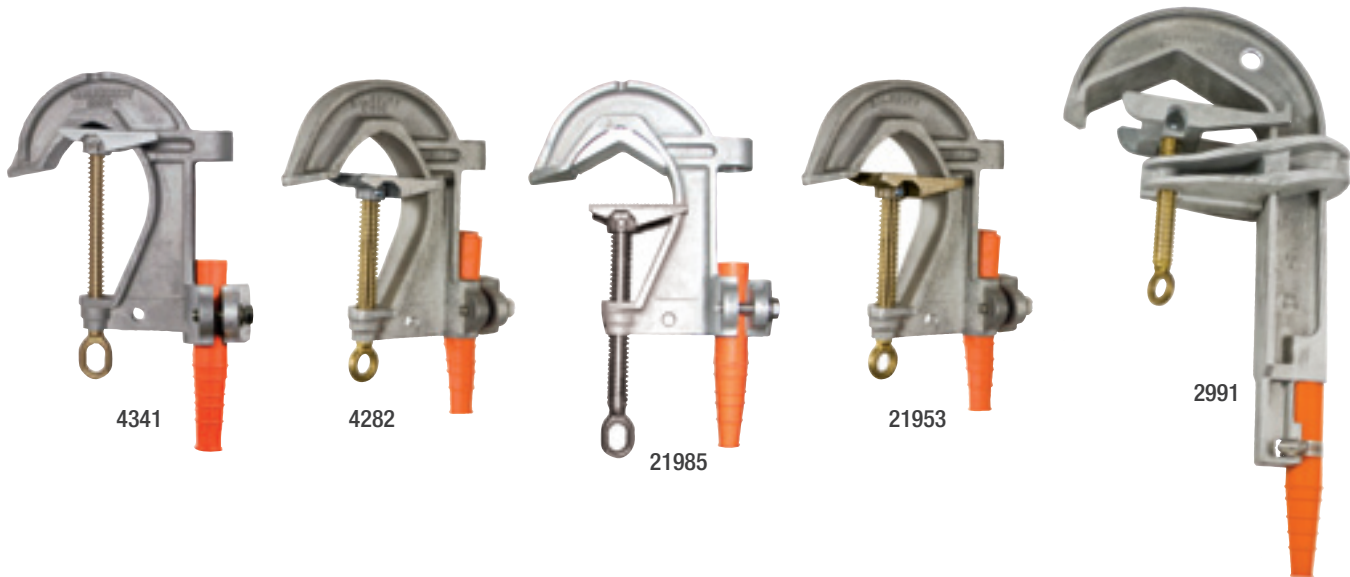
**FLAT JAW GROUNDING CLAMPS** are now available with pressure terminals for use with plain cable ferrules. These clamps are made of a high strength aluminum and a bronze eye screw or "T" handle for durability and smooth operation. Also featured is a hardened aluminum alloy serrated insert. This insert 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"-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"-1.16" (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"-1.16" (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



**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)

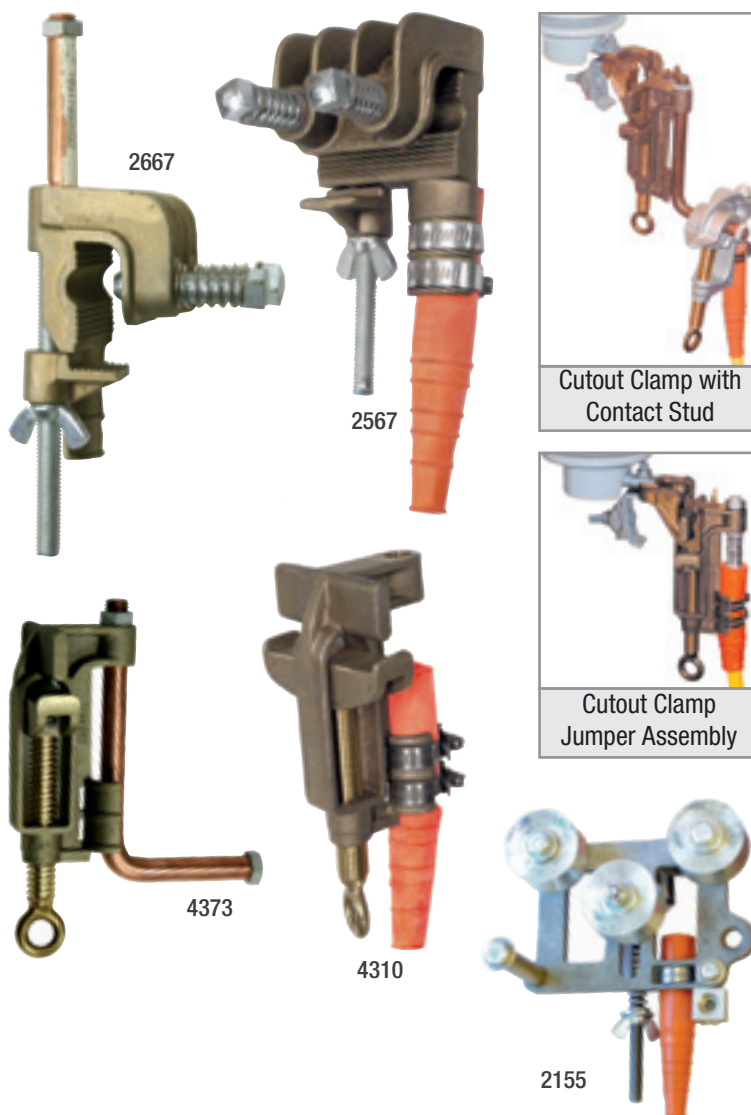
\*Mounted: 1.25” dia x 6’ Fiberglass Hotstick permanently mounted

# 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					5 (2.3)
2577	3/4”-10NC Connection, w/ strain relief sleeve Serrated Jaw	6 / B	Rounds: .25”-.75” (6 mm-19 mm) Dia.		3/4 - 10 UNC Max. Cable Size 250 MCM Type V Compression Ferrules		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 Max. Cable Size: 470 Type VI Threaded Stud Compression Ferrule	400 RMS Amps, 60 Hz	2.1 (1.1)
4373	Eye, w/ contact stud	Grade 5		400 RMS Amps, 60 Hz	3.3 (1.5)
4379	Contact stud only	Grade 5		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.*

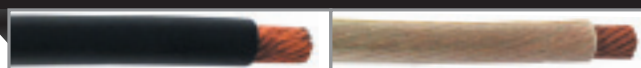
The yellow thermoplastic elastomer jacketed cable is the standard for grounding service. It provides a combination of economy, flexibility and durability. The service temperature ranges from 200° to -50°F. ASTM F 855 Type I.

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.

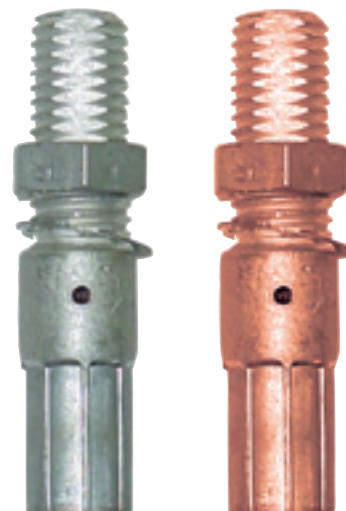
# THREADED GROUNDING FERRULES & STRAIN RELIEF SLEEVES

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.

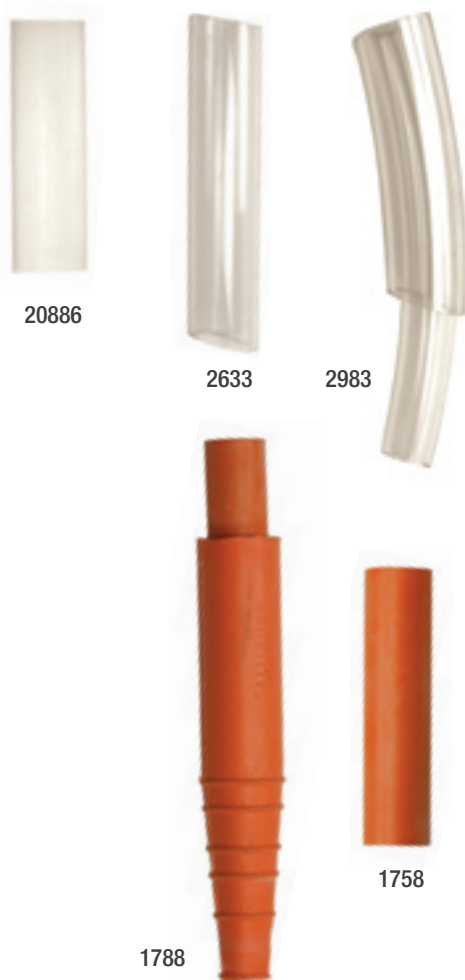
CAT. NO.	ASTM GRADE	SIZE	INSTALLING DIE CODES T&B	BURNDY DIE NUMBERS	WEIGHT EA. PAIR lbs. (kgs)
<b>ALUMINUM THREADED GROUNDING FERRULES</b>					
2026	1	#2	50	-	.2 (.1)
2027	2	1/0	50	-	.2 (.1)
2620	3	2/0	60	-	.3 (.1)
2640	5	4/0	71	-	.3 (.1)
<b>COPPER THREADED GROUNDING FERRULES</b>					
2022	1	#2	50	U243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



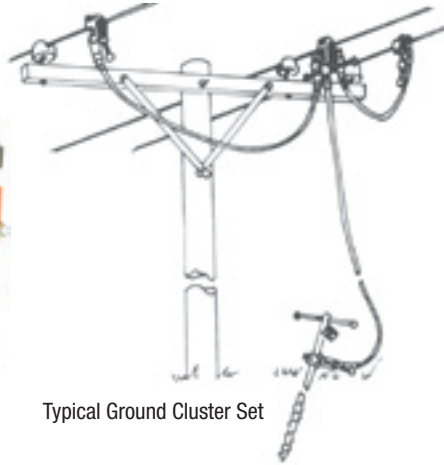


# SINGLE GROUNDING ASSEMBLIES

## 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)

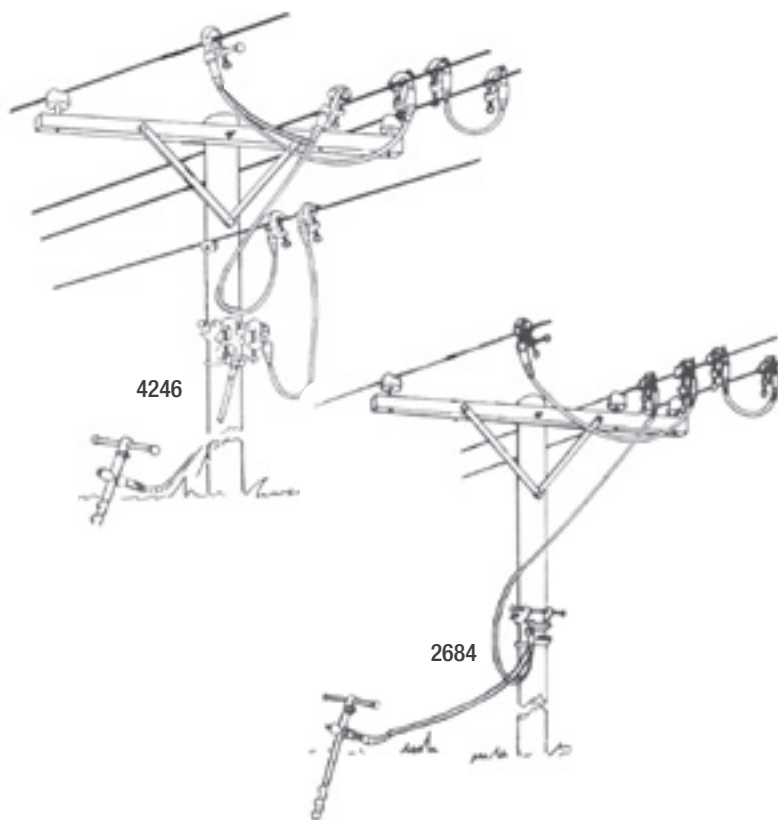
Optional ground set label available upon request when ordering.

## 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)
<b>SINGLE POINT GROUNDING ASSEMBLIES</b>			
<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)

**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

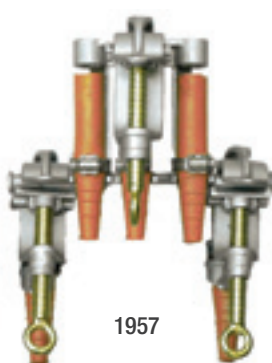
<b>4276</b>	1 ea. #20880A Contact Bar 7 ea. #2531 Smooth Aluminum "C" Clamp 795 MCM 32 ft. #2637 1/0 Cu. Cable, 4 pr. #2027 Ferrules 3 ea. #2537 Hanger Studs, 1 ea. #2654 Storage Bag	2	34 (15.4)
-------------	---	---	-----------

Optional ground set label available upon request when ordering.

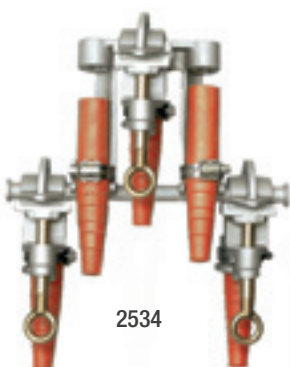
## 3 WIRE UNIVERSAL GROUNDING CLUSTERS & SETS



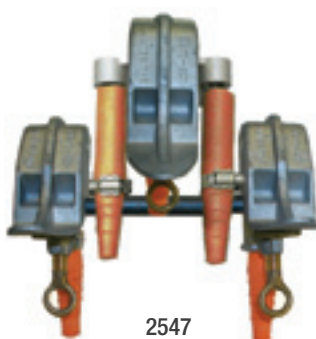
1790



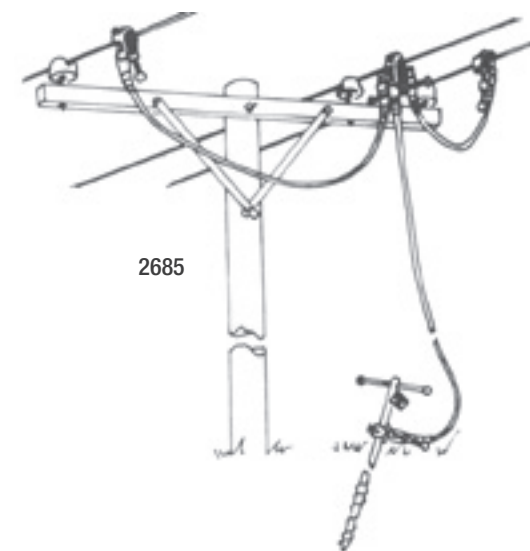
1957



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.

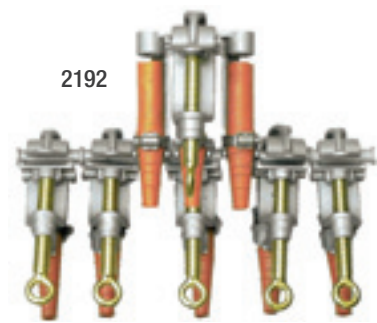
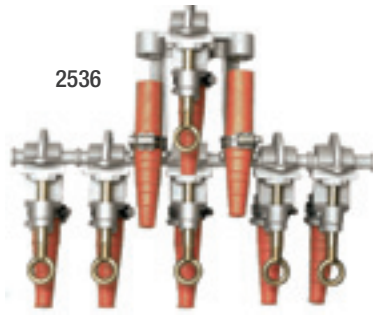
CAT. NO.	DESCRIPTION	ASTM GRADE	WEIGHT EA. lbs. (kgs)
1790	Cluster w/ 3 #1793 Smooth Jaw 556 MCM Bronze Duck Bill Clamps	4	6 (2.7)
1957	Cluster w/ 3 #1895 Serrated Jaw 1.5" Aluminum "C" Clamps	5	6.4 (2.9)
2534	Cluster w/ 3 #2531 Smooth Jaw 1" Aluminum "C" Clamps	5	4.9 (2.2)
2547	Cluster w/ 3 #1853 Serrated 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

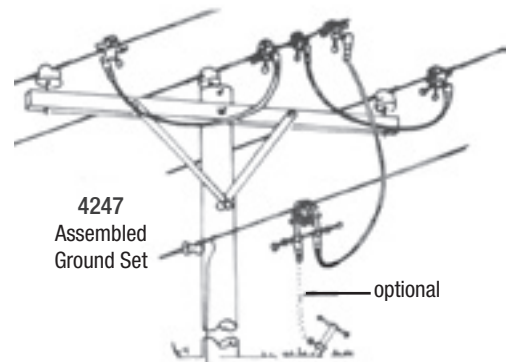
## 4 WIRE UNIVERSAL GROUNDING CLUSTERS & SETS

**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



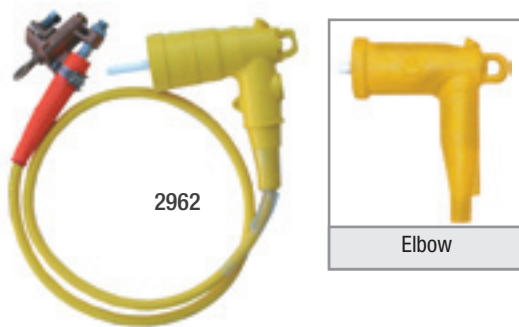
2374

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.

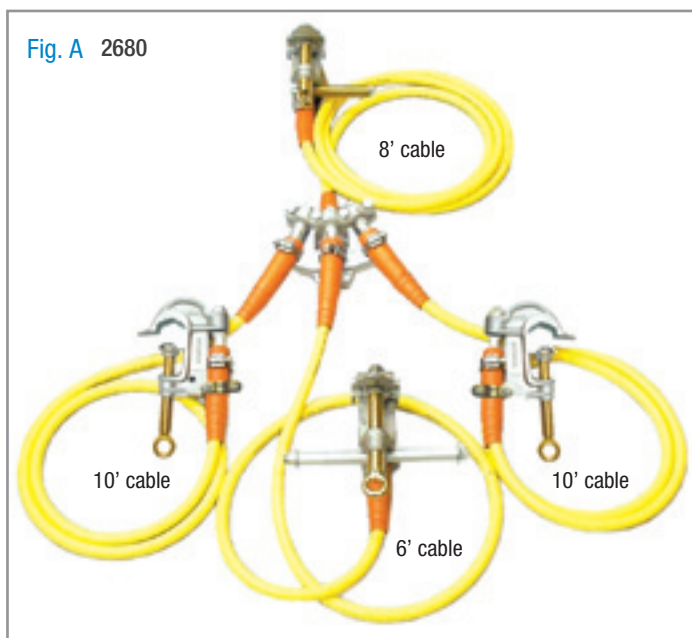


Fig. A 2680

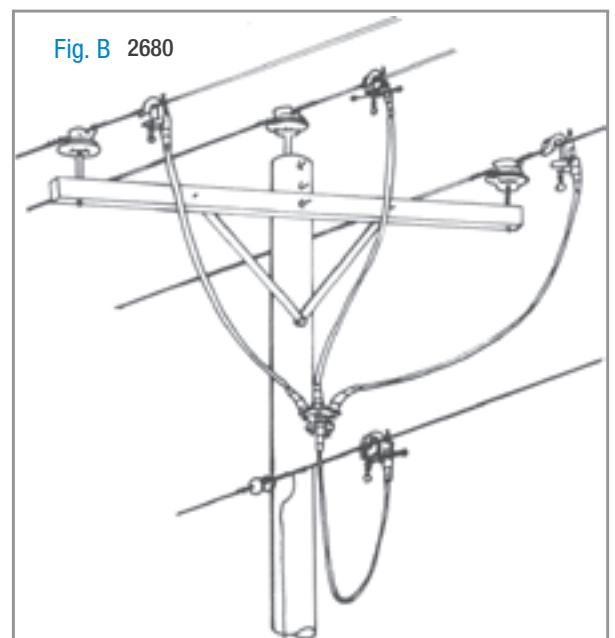


Fig. B 2680



**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.

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 1, 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

**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.

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