

UTILITY PRODUCTS



YOUR SINGLE SOURCE FOR PERSONAL
ELECTRICAL SAFETY PROTECTION

2014

 **cosmos**[®]
lossless power transmission

GLOVES & SLEEVES



Protective Rubber Equipment Labeling Chart

Natural Rubber and SALCOR® Rubber Protective Equipment

Rubber insulating gloves are available in six ASTM defined voltage classes. Rubber dipped sleeves are available in Class 0 through 4. The chart below identifies the class, proof test voltage and maximum allowable exposure voltage.

* Max. Use Voltage when worn with leather protectors.

Insulating Gloves and Sleeves must have a color coded label to meet appropriate ASTM Specifications.

Class Color	Proof Test Voltage AC / DC	Max. Use Voltage* AC / DC	Rubber Molded Products Label	Insulating Rubber Glove Label	Insulating Rubber Dipped Sleeve Label
00 Beige	2,500 / 10,000	500 / 750		10 ANSI / ASTM CLASS 00 MADE IN U.S.A. D120 MAX USE VOLT 500V AC	
0 Red	5,000 / 20,000	1,000 / 1,500	"MAX. USE VOLTAGE: 1,000 VAC" CLASS 0 TYPE I	10 ANSI / ASTM CLASS 0 MADE IN U.S.A. D120 MAX USE VOLT 1000V AC	ANSI / ASTM CLASS 0 MADE IN U.S.A. D1051 MAX USE VOLT 1000V AC
1 White	10,000 / 40,000	7,500 / 11,250	"MAX. USE VOLTAGE: 7,500 VAC" CLASS 1 TYPE I	10 ANSI / ASTM CLASS 1 MADE IN U.S.A. D120 MAX USE VOLT 7500V AC	ANSI / ASTM CLASS 1 MADE IN U.S.A. D1051 MAX USE VOLT 7500V AC
2 Yellow	20,000 / 50,000	17,000 / 25,500	"MAX. USE VOLTAGE: 17,000 VAC" CLASS 2 TYPE I	10 ANSI / ASTM CLASS 2 MADE IN U.S.A. D120 MAX USE VOLT 17000V AC	ANSI / ASTM CLASS 2 MADE IN U.S.A. D1051 MAX USE VOLT 17000V AC
3 Green	30,000 / 60,000	26,500 / 39,750	"MAX. USE VOLTAGE: 26,500 VAC" CLASS 3 TYPE I	10 ANSI / ASTM CLASS 3 MADE IN U.S.A. D120 MAX USE VOLT 26500V AC	ANSI / ASTM CLASS 3 MADE IN U.S.A. D1051 MAX USE VOLT 26500V AC
4 Orange	40,000 / 70,000	36,000 / 54,000	"MAX. USE VOLTAGE: 36,000 VAC" CLASS 4 TYPE II	10 ANSI / ASTM CLASS 4 MADE IN U.S.A. D120 MAX USE VOLT 36000V AC	ANSI / ASTM CLASS 4 MADE IN U.S.A. D1051 MAX USE VOLT 36000V AC



LINEMEN'S GLOVES & MITTENS

HIGH VOLTAGE - ASTM CLASS 1, 2, 3, 4

CLASS 1 THROUGH 4 GLOVES are available in black, that industry standard color, or in contrasting two-color combinations. The contrast between the thin outer color against the inner color makes inspecting for cuts and tears easier when the glove is inflated or stretched.

Class 1 through 4 gloves are available in 14, 16 and 18 inch lengths. A **STRAIGHT CUFF** is standard on 14" (356 mm), 16" (406 mm) & 18" (457 mm) gloves. The straight cuff is the default style.

A **CONTOUR CUFF** is angled to prevent bunching or binding at the elbow when the arm is bent. Available on all 18" (457 mm) gloves only.

The **BELL CUFF** accommodates heavier winter clothing and allows for greater air flow in warmer weather. These are available for Class 1 through 4 gloves. Bell cuff gloves are not available in sizes 7, 8 or 8H.

COSMOS LINEMEN'S MITTENS are made from the same durable, lightweight rubber as the five finger gloves yet keep the user warmer during harsh temperatures. The three finger mitten allows for precise hand movement as well.

Class 1 through 4 mittens are available in the industry standard black or in contrasting two-color combinations. The contrast between the thin outer color against the inner color makes inspecting for cuts and tears easier when the glove is inflated or stretched.

Class 1 through Class 2 mittens are available in 14, 16 and 18 inch lengths. Class 3 through Class 4 mittens are available in 16 and 18 inch lengths. A **BELL CUFF** design is standard on all mittens. BC=Bell Cuff.

INSULATED RUBBER GLOVES

CLASS	LENGTH	CUFF STYLE	COLOR	SIZE
E 1	14, 16 or 18	BC***, C	B, YB, or RB	7, 8, 8H, 9, 9H
E 2	14, 16 or 18	BC***, C	B, YB, or RB	10, 10H, 11, 12
E 3*	14, 16 or 18	BC***, C	B, YB, or RB	
E 4**	16 or 18	BC***, C	B, YB, or RB	

EXAMPLE: E116BCYB/10 is a Class 1, 16" length, Bell Cuff, Yellow inside Black Out, Size 10

BC***=bell cuff C=contour cuff (Contour cuff available for 18" only.)

*Available in sizes 8 through 12 including half sizes

**Available in sizes 9 through 12 including half sizes

***Bell cuff gloves available in sizes 8 through 12 including half sizes

B=black YB=Y inside, B out RB=R inside, B out:Type I Natural Rubber

NOTE: Size 11H no longer available.

INSULATED RUBBER MITTENS

CLASS	LENGTH	CUFF STYLE	COLOR	SIZE
EM 1	14, 16 or 18	BC	B, YB, or RB	9, 10, 11
EM 2	14, 16 or 18	BC	B, YB, or RB	9, 10, 11
EM 3*	16 or 18	BC	B, YB, or RB	9, 10, 11
EM 4	16 or 18	BC	B, YB, or RB	9, 10, 11

Mittens are available in sizes 9 through 11 full sizes only.

Bell Cuff colors B=Black YB=Yellow inside, Black out RB=Red inside, Black out



LINEMEN'S GLOVES

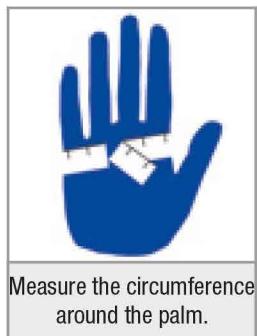
LOW VOLTAGE - ASTM CLASS 00, 0



E011Y Gloves being manufactured.



E0014BLO/9



Measure the circumference around the palm.



E0011BL/9



E014R/8



E011Y/8

SELECTING THE RIGHT SIZE, LENGTH AND STYLE

Salisbury linemen's gloves are available in a full range of sizes, from 7 through 12, including half sizes on 8, 9, and 10. Proper fit is important. To determine glove size, measure the circumference around the palm. Allow for additional room if fabric glove liners are to be worn, especially with thermal liners.

ADVANTAGE

Type I and Type II gloves are extremely flexible making it easy to work with small parts. The gloves meet or exceed ASTM D120 and IEC EN60903 Standards.

Class 00 and 0 gloves are available in 11 and 14 inch lengths. **CLASS 00**

ELECTRICAL INSULATING RUBBER GLOVES are made from red or black Type I natural rubber, blue Type II SALCOR®, or in contrasting blue/orange Type II SALCOR®. The contrast between the outer orange color against the inner blue color makes inspecting for cuts and tears easier when the glove is inflated or stretched.

CLASS 0 ELECTRICAL INSULATING RUBBER GLOVES are available in red, black, yellow, and contrasting black/yellow colors in Type I Natural Rubber. The contrast between the outer yellow color against the inner black color makes inspecting for cuts and tears easier when the glove is inflated or stretched. These gloves are also available in blue or contrasting blue/orange colors Type II SALCOR® rubber.

INSULATED RUBBER GLOVES

CLASS	LENGTH	COLOR	SIZE (choose one below)
E 00	11	R, B, BL, or BLO	7, 8, 8H, 9, 9H
E 00	14	R, B, BL, or BLO	
E 0	11	Y, B, R, BL, BLO, or BY	10, 10H, 11, 12
E 0	14	Y, B, R, BL, BLO, or BY	

EXAMPLE: E011R10 is a Class 0 11" red glove size 10.

Type I Natural Rubber available in: R=Red, Y=Yellow, B=Black, RB=Red in, Black out, YB=Yellow in, Black out.

Type II Salcor® Rubber available in: BL=Blue, BLO=Blue in, Orange out.

INSULATING RUBBER GLOVES MAXIMUM USAGE

CLASS	PROOF TEST VOLTAGE AC / DC	MAX. USE VOLTAGE AC / DC
00	2500 / 10,000	500 / 750
0	5,000 / 20,000	1,000 / 1,500
1	10,000 / 40,000	7,500 / 11,250
2	20,000 / 50,000	17,000 / 25,500
3	30,000 / 60,000	26,500 / 39,750
4	40,000 / 70,000	36,000 / 54,000

MAKING A PROPER INSPECTION

OSHA 1910.137 states "Insulating equipment shall be inspected before each day's use and immediately following any incident that can reasonably be suspected of having caused damage. Insulating gloves shall be given an air test, along with the inspection." Salisbury's **G100 with G100A ADAPTER FOR CLASS 00 AND 0** and smaller size gloves, and the **G99**, without additional adapter, are the perfect answer for inflating your gloves for inspection.

The **G99** is a simple, easy to use, portable glove inflator. The G99 provides a quality means of inspecting gloves in the field. The glove is secured to the inflator using a nylon strap and fastened with a hook and pile closure. Inflation is accomplished by pumping the bellows of the inflator against any surface. **NOTE:** gloves should be expanded no more than 1.5 times their normal size for Type I, and 1.25 times normal for Type II SALCOR®.

ADVANTAGE

The **G100** is also a simple and easy to use, portable glove inflator. The G100 operates exactly like the G99, but includes an additional G100A adapter to also inspect Class 00 and 0 and smaller gloves. To use the adapter, the glove is secured to the **G100A** adapter using a nylon strap with a hook and pile closure. The adapter, with glove attached, is then placed on top of the inflator to be inflated for inspection.

INF SERIES GLOVE INFLATORS & SLEEVE EXPANDERS

Proper safety requires frequent inspection of gloves and sleeves. These glove inflators and sleeve expanders provide an efficient way to conduct complete and thorough visual inspections before and after use in the field. They are easy to install, simply to operate, accommodates all sleeve and glove sizes and takes up minimal floor space. Compressed air source required.

CAT. NO.	DESCRIPTION
G99	Glove Inflator Kit
G99B	Replacement Bag
G99S	Replacement Strap
G99V	Replacement Check Valve
G100	Glove Inflator Kit with Adapter
G100A	Low Voltage Glove Adapter
INF-1	Standard Bench Model Inflator with Foot Pump
INF-2	Standard Bench Model Inflator with Air-Line Connection
INF-3	Standard Floor Model
INF-5	Bench Model Air-Bag Inflator for High and Low Voltage Gloves
INF-6	Standard Sleeve Expander
INF-7	Replacement Glove Inflator Boots for Air Bag Glove Inflators
INF-8	Replacement Bladders for Sleeve Expander (with closed ends) - Set of three
INF-9	Single Replacement Bladders for Sleeve Expander (with closed ends) - Outside Bladder only



INF-6



MINIMUM DISTANCE FROM PROTECTOR AND RUBBER GLOVE

GLOVE CLASS	LEATHER PROTECTOR CUFF	
	----- CUFF LINE -----	
00, 0	1/2	1/2" from cuff
1	1	1" from cuff
2	2	2" from cuff
3	3	3" from cuff
4	4	4" from cuff

LEATHER PROTECTOR GLOVES should always be worn over Rubber Insulating Gloves to provide the needed mechanical protection against cuts, abrasions and punctures. Manufactured from top grade leather, all are sewn with heavy duty nylon thread in the "gunn cut" inseam construction pattern. Each protector for Class 1-4 gloves are equipped with a nonmetallic buckle on the pull strap and an extra wide leather reinforcement over the thumb seam. Protectors for Class 00 and 0 gloves are available with non-metallic buckle and pull strap or elastic wrist.

Leather Protectors meet ASTM F696 standards.

It is the responsibility of the purchaser to specify the overall length of the protector gloves. The Clearance Table below shows the minimum distance which shall be allowed between the protector glove cuff and the bead of the rubber glove per ASTM F496 Specifications.

Proper care of leather protectors is essential to user safety. Proper care of leather protectors is essential to user safety. Inspect the leather protectors when inspecting rubber gloves for common problems such as cracking & cutting, chemical attaching, folding, snags, etc that result from metal particles, imbedded wire, abrasive materials or any substance that could physically damage the rubber gloves.

WARNING: DO NOT USE LEATHER PROTECTORS ALONE FOR PROTECTION AGAINST ELECTRIC SHOCK. SERIOUS INJURY OR DEATH WILL RESULT. ALWAYS USE A PROPERLY RATED INSULATING GLOVE FOR THE VOLTAGE BEING WORKED.

CLEARANCE TABLE FOR LEATHER PROTECTORS PER ASTM F496 - TABLE 4

GLOVE CLASS	MIN. DISTANCE BETWEEN PROTECTORS AND RUBBER GLOVES	
	in.	mm
00, 0	1/2	13
1	1	25
2	2	51
3	3	76
4	4	102

Adapted, with permission, from F696 Standard Specification for In-Service Care of Insulating Gloves and Sleeves, 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 minimum distance from the leather protector cuff to the bead of the rubber glove for this Class 2 glove is 2 inches.

PREMIUM LEATHER PROTECTORS

SALCOR® cuff provides maximum protection.

156 PREMIUM SERIES These protectors are made from specially tanned Grade A Red Boulevard buffed leather and an orange colored SALCOR® "Super Cuff" in the 4" (102 mm) and 6" (152 mm) cuff lengths. The "Super Cuff" has better characteristics than leather or vinyl cuffs; it does not absorb water, has greater track resistance and creepage.

CAT. NO.	CUFF LENGTH in. (mm)	OAL LENGTH in. (mm)	WEIGHT EA. lbs. (kgs)
156-4	4 (102) Straight Cuff	12 (305)	1 (.5)
156-6	6 (152) Straight Cuff	14 (356)	1.2 (.5)

Available in dual sizes: 8/8.5, 9/9.5, 10/10.5, 11/11.5, 12



156-4



156-6





ILPG10



ILPG10A



ILPM5S



ILP3S



LP6S



ILP7C



LPG4S



LPG6S

ILP SERIES Manufactured from top grain cowhide, or goatskin, these protectors provide excellent protection for rubber insulating gloves at a very economical price. Cowhide cuffs are tough leather on palm side and orange vinyl on the back, while the goatskin cuffs are green leather on palm side and orange vinyl on back. A full offering of styles is available from 10" through 16" contour cuff. Leather protectors are available in size 7, dual sizes 8/8.5 through 11/11.5 and size 12.

ILPM SERIES MITTEN PROTECTOR Manufactured from top grain cowhide, these protectors offer excellent comfort and protection. The ILPM Series mitten protectors feature adjustable straps with non-metallic buckles and are stitched with polyester thread for strong seams. Cuffs are tough leather on palm side and orange vinyl on the back of the hand. Leather protectors are available in sizes 9, 10 and 11.

LP SERIES Manufactured in the United States, these leather protectors are made from top grain cowhide or goatskin, and offer excellent comfort and protection. The LP Series protectors feature adjustable straps with non-metallic buckles and are stitched with polyester thread for strong seams. Cuffs are tough leather on palm side and orange vinyl on the back of the hand. Leather protectors are available in sizes 7 to 12, including half sizes 8 1/2 to 11 1/2.

CAT. NO.	OAL LENGTH in. (mm)	WEIGHT EA. lbs. (kgs)
ILP SERIES - COWHIDE		
ILP3S*	12 (305)	1 (.5)
ILP4S*	13 (330)	1 (.5)
ILP5S*	14 (356)	1.2 (.5)
ILP6S* / **	15 (381)	1.2 (.5)
ILP7C* / **	16 (406)	1.5 (.7)
ILP10*	10 (254)	.7 (.32)
ILP10A* w/ pull strap	10 (254)	.7 (.32)

*To specify goatskin, use ILPG. Goatskin not available in size 7.

Available in sizes: 7, 8/8.5, 9/9.5, 10/10.5, 11/11.5, 12

** Not available in size 7.

ILPM SERIES - COWHIDE		
ILPM3S	12 (305)	1 (.5)
ILPM4S	13 (330)	1 (.5)
ILPM5S	14 (356)	1.2 (.5)

Available in sizes: 9, 10, 11

LP SERIES		
LP3S	12 (305)	1 (.5)
LP4S	13 (330)	1 (.5)
LP5S	14 (356)	1.2 (.5)
LP6S	15 (381)	1.2 (.5)
LP7C	16 (406)	1.5 (.7)
LP10	10 (254)	.7 (.32)
LP10A w/ pull strap	10 (254)	.7 (.32)

To specify goatskin, use LPG.

Available in single sizes: 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12

GLOVE STORAGE & GLOVES KITS

PROPER STORAGE EXTENDS THE SERVICE LIFE

OF LINEMEN'S GLOVES. Folds and creases strain rubber and cause it to crack from ozone exposure prematurely. By storing rubber gloves in the right size bag, and never forcing more than one pair into each bag, equipment will lie flat and last longer.

Salisbury bags are constructed of heavy duty canvas duck and are double stitched and riveted at stress points for extra durability. Canvas bags feature a D ring for hanging in trucks or on work belts. Bags feature tapered gussets with wide opening tops for easy insertion.

GLOVE AND PROTECTOR COMBO BAGS contain two layered pockets in one bag. Now, both a pair of gloves and protectors can be properly stored in one convenient bag. Never worry about having to bring more than one bag from job site to job site.



GB116GC



GB116



GPB116

CAT. NO.	FOR GLOVE Length in. (mm)	DIMENSIONS inches (mm)	WEIGHT EA. lbs. (kgs)
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26 OZ. CANVAS GLOVE BAGS

GB112	11 (280)	9" x 14" (229 x 356)	1 (.5)
GB114	14 (356)	9" x 16" (229 x 406)	1 (.5)
GB116	16 (406)	9" x 18" (229 x 457)	1.2 (.6)
GB118	18 (457)	9" x 20" (229 x 508)	1.5 (.7)

26 OZ. CANVAS GLOVE BAGS W/ GOGGLE CASE

GB114GC	14 (356)	9" x 16" (229 x 406)	1 (.5)
GB116GC	16 (406)	9" x 18" (229 x 457)	1.2 (.6)
GB118GC	18 (457)	9" x 20" (229 x 508)	1.5 (.7)

14.75 OZ. CANVAS GLOVE & PROTECTOR BAGS

GPB112	12 (305)	9" x 14" (229 x 356)	1 (.5)
GPB114	14 (356)	9" x 16" (229 x 406)	1 (.5)
GPB116	16 (406)	9" x 18" (229 x 457)	1.2 (.6)
GPB118	18 (457)	9" x 20" (229 x 508)	1.5 (.7)

GLOVE & SLEEVE COMBO BAGS

2C16	14 (356) 16 (406)	9" x 18" (229 x 457)	1.2 (.6)
2C18	18 (457)	9" x 20" (229 x 508)	1.5 (.7)



ADVANTAGE GLOVE KITS

insulating rubber gloves are necessary for every electrical worker's complete safety. And to ensure your safety, leather protectors provide needed protection from cuts, abrasions and punctures. To keep these safety items in top condition, proper storage is very important.

PRODUCT NUMBERING CHART FOR GLOVE KITS

CLASS	LENGTH (inches)	COLOR	GLOVE SIZE (choose one below)
GK 00	11 or 14	B, BL, Y, R	7, 8, 8H, 9, 9H
GK 0	11 or 14	B, BL, Y, R	10, 10H, 11, 12
GK 2	14, 16, or 18	B, RB	
Example: GK011BL9	11	BL	9

GK011BL9 is a glove kit with a Class 0, 11" long, blue glove, size 9. The appropriate glove bag and leather protectors will be included.

Type I Natural Rubber available in: R=Red, Y=Yellow, B=Black, RB=Red in, Black out.
Type II Salcor® Rubber available in: BL=Blue

 Lineman's Gloves							
Manufactured and tested in accordance with the current ASTM D120 specification.							
CATALOG NO.	TYPE	CLASS	LENGTH	CUFF	COLOR	SIZE	CATEGORY
E0011BL/9	1	2	16	ST	B	10	AHCZ

4090 Azalea Dr.
Charleston, SC 29405

Note: If you require test date stamping, please specify when ordering.



GK011BL8



Figure 1

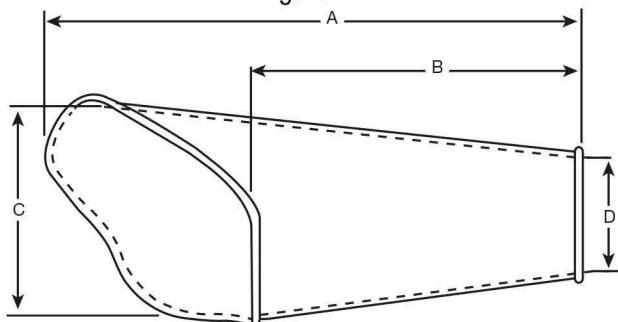
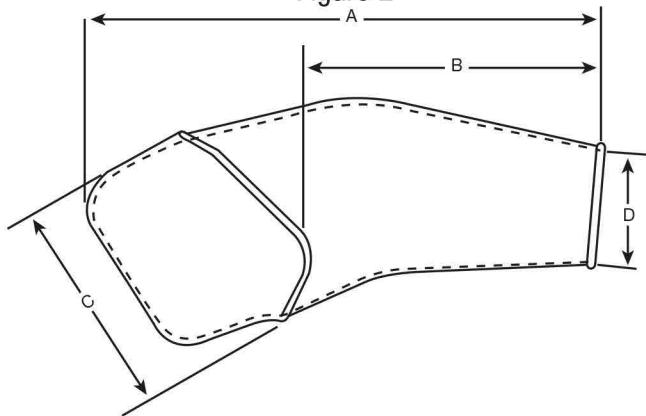


Figure 2



RUBBER INSULATING SLEEVES extend coverage of the arm from the cuff of rubber insulating gloves to the shoulder; fully protecting these areas from accidental contact with energized conductors and equipment. Salisbury sleeves feature a reinforcing fold at the cuff. This fold is preferred over a rolled bead because it adds less bulk to the cuff and fits into the glove easier without pushing. Two different processes are used to manufacture insulating sleeves; dipping and molding. Both meet the current requirements of ASTM D1051 and offer the same high level of quality and protection.

SIZING

Sleeves should be selected to fit the arm comfortably, covering from the top of the shoulder to inside the top of the glove. To minimize the possibility of the sleeves pushing gloves off the hand, size the sleeve to the shortest length possible while maintaining complete coverage to the shoulder.

SIZING LINEMEN'S SLEEVES

STRAIGHT ARM SLEEVE- Figure 1

	A in. (m)	B in. (mm)	C in. (mm)	D in. (mm)
SMALL				
24.25 (616)	15.13 (384)	12.5 (317)	5.75 (146)	
REGULAR				
26.25 (667)	15.5 (394)	11.25 (286)	5.5 (140)	
LARGE				
28.5 (724)	17 (432)	12.87 (327)	6.87 (175)	
EXTRA LARGE				
30 (762)	19 (483)	13.25 (337)	6.87 (175)	

EXTRA CURVED ARM SLEEVE- Figure 2

	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)
SMALL				
24.25 (616)	15.13 (384)	12.5 (317)	5.75 (146)	
REGULAR				
26.5 (673)	15.5 (394)	12.25 (311)	5.25 (140)	
LARGE				
27.75 (705)	16 (406)	12.87 (327)	6.87 (175)	
EXTRA LARGE				
29.5 (749)	17.5 (445)	12.87 (327)	7 (178)	

DIPPED LINEMEN'S SLEEVES

DIPPED SLEEVES are manufactured in the same way rubber insulating gloves. Porcelain forms are dipped into liquefied rubber, dried, trimmed, marked and cured. Every sleeve receives the same quality inspections and electrical testing before shipping. Dipped sleeves are available in the same colors as dipped gloves, including two color combinations.

offers two popular styles of dipped linemen's sleeves: straight and extra-curved. Both styles are available in solid color or color combination, size and voltage class. Most importantly, all are made to the same rigid levels of quality demanded by Salisbury.

Only offers both dipped and molded sleeves.

MOLDED SLEEVES are manufactured by either injection or compression molding methods. The advantage these methods offer is the ability to produce sleeves of Type I or SALCOR® Type II synthetic rubber. SALCOR® sleeves provide the same high quality and electrical protection as natural rubber, with the added benefit of being resistant to ozone and ultraviolet radiation. Type I sleeves are available in black, yellow or maroon. Type II SALCOR® sleeves are black or orange. Molded sleeves are available in curved arm style only.

CAT. NO. BREAKDOWN FOR DIPPED TYPE I SLEEVES

VOLTAGE CLASS	SIZE	COLOR
D0	S, R, L or XL	Y = yellow
D1	S, R, L or XL	B = black
D2	S, R, L or XL	YB = Y inside, B out
D3	S, R, L or XL	RB = R inside, B out
D4	S, R, L or XL	YR = Y inside, R out

S=small, R=regular, L=large or XL=extra large

Add suffix "-ST" to order straight cuff or "-EC" to order extra-curved cuff

EXAMPLE: D2LYB-ST is a Large Yellow inside, Black outside Straight Cuff Dipped sleeve



Straight Arm
D2RYB-ST



Extra-Curved Arm
D2LYR-EC



Molded Black
Type I
2RB



Molded Yellow
Type I
3LY



Molded Orange
Type II
2ROS

CAT. NO. BREAKDOWN FOR MOLDED TYPE I SLEEVES

VOLTAGE CLASS	SIZE	COLOR
1	R or L	Y
2	R, L or XL	B, Y, M
3	R or L	Y, M
4	R or L	M

R=regular, L=large or XL=extra large

B=black, Y=yellow or M=maroon

EXAMPLE: 2RB is a Class 2, Regular, Black Molded Sleeve

CAT. NO. BREAKDOWN FOR MOLDED TYPE II SLEEVES

VOLTAGE CLASS	SIZE	COLOR
1	R or L	BS or OS
2	R, L or XL	BS or OS

R=regular, L=large or XL=extra large

BS=black SALCOR® OS=orange SALCOR®

EXAMPLE: 2LOS is a Class 2, Large, Orange Molded Sleeve.



PROPER STORAGE EXTENDS THE SERVICE LIFE OF LINEMEN'S SLEEVES.

Folds and creases strain rubber and cause it to crack from ozone prematurely. By storing rubber sleeves in the right size bag, and never forcing more than one pair into each bag, equipment will lie flat and extend the life of the product.

bags are constructed of heavy duty canvas duck and are double stitched and riveted at stress points for extra durability. Canvas bags feature a D ring for hanging in trucks or on work belts. Bags feature tapered gussets with wide opening tops for easy insertion.

ADVANTAGE

The **T32** bag contains a **CRUSH RESISTANT LINING** to create a more protective environment for your sleeves.

ACCESSORIES

SLEEVE BUTTONS, STRAPS AND HARNESSSES are required to wear rubber insulating sleeves properly. Four buttons, two straps and one harness is required per pair of sleeves.

CAT. NO.	DESCRIPTION	WEIGHT EA. lbs. (kgs)
CANVAS SLEEVE BAG		
T31	30" x 9.5" (762 x 241 mm)	1.5 (.7)
T32	30" x 13" (762 x 330 mm)	3 (1.4)
BUTTONS		
B2	One Piece Sleeve Button	.2 (.01)
B22	4 Screw Type Buttons	.8 (.04)
STRAPS		
S1	(2) 15" (381 mm) Straps w/ 4 B2 Buttons	.1 (.005)
S1NB	(2) 15" (381 mm) Straps	.1 (.005)
HARNESS		
H1	Harness w/ 4 B2 Buttons	1 (.45)



LINEMEN'S GLOVE LINERS

LINER GLOVES enhance the comfort of wearing Rubber Insulating Gloves in every season. Liners provide warmth in the cold season and absorb perspiration in the warm months. Many styles and fabrics are available with either an open or knit wrist.

The knit wrist style grips the wrist rather than allowing the cuff to roll down and bunch at the palm. All Liner Gloves are for year round use with Rubber Insulating Gloves and Mittens. All liners are made from stretch fabric that can fit any hand size.

The **L SERIES** has a tough outer cotton fabric while the inner lining is soft and comfortable. The **LMKC SERIES** is light, airy and allows ease of movement. The **LMKW SERIES** is made from a wool blend fabric that moves easily yet gives a substantial layer of lining.

The **89 SERIES** is Salisbury's classic summer and winter glove liner. Liners absorb perspiration from hands. The summer liner is white in color and 100% cotton. The winter blend is a rust color and 100% acrylic.

CAT. NO.	DESCRIPTION	WRIST Style	LENGTH in. (mm)	WEIGHT EA. lbs. (kgs)
L10JK	Jersey Style, Light Weight, Seams Out	Knit	10 (254)	.14 (.06)
L10J	Jersey Style, Light Weight, Seams Out	Open	10 (254)	.12 (.06)
L12J	Jersey Style, Light Weight, Seams Out	Open	12 (305)	.14 (.07)
L10MKC	Machine Knit, 100% Cotton	Knit	10 (254)	.12 (.05)
L12MKC	Machine Knit, 100% Cotton	Knit	12 (305)	.12 (.05)
L10MKW	Machine Knit, Wool Blend	Knit	10 (254)	.14 (.06)
L12MKW	Machine Knit, Wool Blend	Knit	12 (305)	.14 (.07)
89/1402	White Machine Knit, 100% Cotton	Knit	10 (254)	.12 (.06)
89/4702	Rust Machine Knit, 100% Acrylic	Knit	10 (254)	.12 (.06)

One size fits all.



L10J



L10JK



L12J



L12MKC

L10MKW

89/1402



89/4702



SALPOL GLOVES protect hands during cold weather jobs. The black split cowhide leather has a 3M Thinsulate* lining to keep hands warm. For extra warmth, a long knit wrist is sewn into the safety cuff to keep out snow and ice. The glove also has a full leather index finger, knuckle strap, leather fingertips, and pull patch.

*Thinsulate is a registered Trademark of the 3M Company.

DRIVER WORK GLOVES set the standard for quality at an affordable price. Combining comfort, durability and economy, leather Drivers Work Gloves meet the tough challenges of today's demanding workplace. Available in lined or unlined styles. The bindings are color coded to indicate size: red-small, green-medium, brown-large, purple-extra large.

LINEMEN WORK GLOVES are designed specifically for use by linemen and offers many of the quality features found in our leather protectors. Made from high quality grain cowhide or goatskin, this glove is soft and flexible, while still being highly abrasion and cut resistant for long wear.

UWG-KLG - KEVLAR® UTILITY GLOVE - CUT RESISTANT
This all purpose work glove is highly cut-resistant and features a 100% KEVLAR® lining. This glove has great dexterity and durability.

UWG-HUXT - PRO UTILITY GLOVE - MAX ABRASION RESISTANT This all purpose work glove has maximum abrasion resistance, good dexterity and breathability. The top of the hand features stretch nylon and the extended cuff includes asphalt reinforcement on the palm side.

CAT. NO.	DESCRIPTION	LENGTH in. (mm)	WEIGHT EA. lbs. (kgs)
SALPOL GLOVES			
SP-S	Small Size Polar Glove	n / a	.5 (.23)
SP-L	Large Size Polar Glove	n / a	.5 (.23)

CAT. NO.	DESCRIPTION	WEIGHT EA. lbs. (kgs)
DRIVERS & LINEMEN WORK GLOVES		
I95/217/WHS*	Unlined	.3 (.14)
I95/317/WHS*	Lined	.3 (.14)
LW2SPE**	Cowhide leather, natural pigskin cuff	.4 (.18)
LWG2SPE**	Goatskin leather, natural pigskin cuff	.4 (.18)
UWG-KLG*	KEVLAR utility glove - cut resistant - all purpose	-
UWG-HUXT*	Pro utility glove - max abrasion resistant - all purpose	-

* Add "-S" for small, "-M" for medium, "-L" for large, "-XL" for extra large

** Add "-M" for medium, "-L" for large, "-XL" for extra large

CLEANERS AND SUPPLIES

RUB-OUT® is a non-petroleum-based hand cleaner for workers who wear rubber gloves and sleeves. It dissolves and removes grease, oil, ink, tar, pipe dope, creosote, paint and more without harming natural rubber or SALCOR® rubber. Product cleans with or without water and contains skin conditioners that leave a fresh citrus scent.

RUB-OUT® TOWELETTES are pre-moistened, heavy duty hand cleaner towels that work fast to loosen, dissolve, and absorb dirt and grease, and will not harm rubber gloves! Our powerful yet safe cleaning agents work together with an absorbent, non-scratching abrasive cleaning towel. The citrus-based formula easily removes soil from your hands and leaves them cleaned and conditioned anywhere you're working. And after cleaning your hands, there is enough absorbency to clean your tools and other surfaces with the same towel. These shop size (10.5" x 12.25") durable towels quickly remove tough-to-clean substances including lubricants, tar, oils, wax, caulk and much more.

TEN-FOUR® GLOVE DUST is a cooling, frictionless powder that absorbs moisture and perspiration when wearing rubber gloves. Provides extra comfort while preventing gloves from getting sticky. The 5-oz. bottle easily fits in a pocket or glove bag. The 4-quart bulk package is used in test labs as a dusting powder when cleaning and testing.

SUPER SALCO® CLEANER is a concentrated detergent with a special grease release formula that removes oils, grease and dirt from natural rubber and SALCOR® rubber equipment. Suitable for washing linemen's rubber gloves, sleeves and other specialty equipment, by hand or in commercial washing machines. Also works well on fiberglass and other materials. Just dilute with water, apply with a rag or sponge and rinse thoroughly.

SALCON® Silicone Spray is specially formulated to reduce friction on SALCOR® or natural rubber products. Reduces surface creepage on rubber gloves and sleeves. Forms an oxygen barrier which helps reduce corona cutting and weather checking on rubber equipment. May also be used to spray spark plugs and battery terminals in damp weather to assist in starting.

CAT. NO.	DESCRIPTION	WEIGHT EA. lbs. (kgs)
RUB-OUT® HAND CLEANER		
1451	16 oz. (.45 kg) can, 12/pack	16 (7.3)
1452	4.5 lbs. (2 kgs) cans, 6/pack	28 (12.7)
1453	Dispenser for 4.5 lbs. (2 kg) can	1 (.5)
RUB-OUT® TOWELETTES		
1460	Bucket of 60, 6 buckets / Case	14 (6.4)
1461	Single Packets, 100 Singles / Case	3 (1.4)
TEN-FOUR® GLOVE DUST		
10-4	12 @ 5 oz. (170g) squeeze bottles	5.5 (2.2)
10-4-4QT	4 quarts (3.8 ltrs.) bulk, single	8 (3.6)
SUPER SALCO® DETERGENT		
S4	1 gal (3.8 ltr.) jugs, 4 pack	54 (24.5)
S5	5 gal (19 ltr.) drum	49 (22.3)
S55	55 gal (208 ltr.) drum	540 (245)
SALCON® SILICONE SPRAY		
S99	Aerosol can	16 oz. (.454)



1452



S99



1460



S5



1461



1451



10-4

LINE HOSE & COVERS



 **cosmos®**
lossless power transmission



LINE HOSE & COVERS



FAQ

Q: What is SALCOR® Rubber and why does use it to make their line hose products?

A: SALCOR® Rubber is a TYPE II rubber that remains flexible in cold weather and is resistant to ozone and UV rays. exclusive SALCOR® Rubber is the preferred material for line hose and other insulating products because it easily withstands the elements and does not lose its flexibility or insulating properties.

HISTORY

Leading the industry with over ninety years of Research and Development

Filed: United States Patent Office, December 21, 1922 Serial No 605,340

"To all whom it may concern: Be it known that I, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, has invented an Improved Protective Insulating Sleeve, of which the following is a specification. . ."

This application, one of hundreds filed in the US Patent Office for Salisbury, proved to be the most effective device for protecting linemen from accidental contact with energized lines, and is still regarded as indispensable to the electrical industry today.

With over ninety years of research and development on linemen's protective equipment, offers the most comprehensive line of protection up to 69 kV in the industry.

NOTE

All Covers and Protective Equipment are designed for personal protection only.

They are not to be used for mechanical protection.

INSULATING LINE HOSE AND COVERS

LINE HOSE SELECTION CHART



The connector, formed at one end, receives and overlaps the end of an adjoining hose for a distance of 6.5" (165 mm).

Use the chart below to determine the maximum conductor diameter recommended for use with each size line hose. For ease of installation and to minimize the potential of flashover through the overlapping lips, line hose is always sized larger than the maximum conductor diameter.

Line Hose is available in four ASTM D1050 styles, as shown below:



Style A
Class 2 & 3
Straight Conventional



Style B
Class 2 & 3
Connector End Conventional



Style C
Class 4
Extended Lip Straight



Style D
Class 4
Extended Lip Connector End

LINE HOSE SIZE SELECTOR CHART								
I.D. OF LINE HOSE IN. (MM)	CONDUCTORS AND DIAMETERS IN. (MM)							
	4/0 .46 (12)	266,800 .609 (15.5)	336,400 .677 (17)	477,000 .793 (20)	556,500 .858 (22)	795,000 1.028 (26)	954,000 1.126 (29)	1,351,500 1.34 (35)
1 (25)	20 KV Conventional							
1 1/4 (31)	20 KV Conventional							
1 1/2 (38)	30 KV Conventional							
1 1/2 (38)	40 KV SU System							
2 (51)	30 KV Conventional							
2 (51)	40 KV SU System							
2 1/2 (64)	30 KV Conventional							
2 1/2 (64)	40 KV SU System							

CONVENTIONAL STYLE LINE HOSE is available in orange Type II SALCOR®. SALCOR® remains flexible even in cold weather and it is not damaged by ozone or ultraviolet rays. Each line hose has RIB-GRIP® Locking System. The straight or connector end style is available in three sizes: 1" and 1.25" I.D. rated at 17 kV, Class 2 and 1.5" I.D. rated at 26.5 kV, Class 3.

STRAIGHT STYLE SALCOR® HOSE is also available in 2" or 2.5" I.D. rated at Class 3.

CONVENTIONAL LINE HOSE CONNECTORS are made from Type II orange SALCOR® and can be used on 1", 1.25", or 1.5" I.D. conventional line hose. To connect 2" and 2.5" I.D. conventional line hose, use the SU System Connector.

THE TIGHTEST GRIP IN THE INDUSTRY.

The self-locking lip, that patented, prevents line hose from coming off the conductor after an installation is complete. Often, as a lineman is working on an installation and making adjustments, the angle of connection shifts, causing line hose and covers to separate. To prevent this, developed an ingenious solution for ensuring that any two protective devices would hold together yet still be easy for a lineman to assemble and take apart.

RIB-GRIP® construction takes advantage of rubber's natural tendency to grip and tighten its grip through compression. By creating curving rib configurations slit at a specific angle, two pieces easily slip together but resist coming apart. To quickly disengage the lineman needs only to compress the rubber on either side.



ORC125



OR150-3



OR125-45C

RIB-GRIP® Locking System



Sectional view of typical insulator cover showing arrangement of ribs. Ribs are engineered to grip the serrations on its corresponding line hose, regardless of angle.



A row of serrations on both sides of connector line hose grips snugly inside the large arm of insulator covers.



Saw-tooth serrations on the ends of line hose are angled to make it easy to insert, but resist coming apart.



Connector end line hose with rubber ribs grasp tightly and hold an adjoining length of hose.



LINE HOSE & CONNECTORS
CONVENTIONAL SYSTEM

CAT. NO.	ASTM CLASS	TYPE	DIMENSIONS I.D. X LENGTH	WEIGHT EA.
			in. (mm)	lbs. (kgs)
SALCOR® STRAIGHT LINE HOSE				
OR100-3	2		1" x 3' (25 x 915)	3 (1.4)
OR100-45	2		1" x 4.5' (25 x 1372)	4 (1.8)
OR100-6	2		1" x 6' (25 x 1820)	5.5 (2.5)
OR125-3	2		1.25" x 3' (31.5 x 915)	4 (1.8)
OR125-45	2		1.25" x 4.5' (31.5 x 1372)	6 (2.7)
OR125-6	2		1.25" x 6' (31.5 x 1820)	7.5 (3.4)
OR150-3	3		1.5" x 3' (40 x 915)	5 (2.3)
OR150-45	3		1.5" x 4.5' (40 x 1372)	7 (3.2)
OR150-6	3		1.5" x 6' (40 x 1820)	9.5 (4.3)
OR200-3	3		2" x 3' (50 x 915)	5.5 (2.5)
OR200-45	3		2" x 4.5' (50 x 1372)	8 (3.6)
OR200-6	3		2" x 6' (50 x 1820)	11 (5.0)
OR250-3	3		2.5" x 3' (63 x 915)	7 (3.2)
OR250-45	3		2.5" x 4.5' (63 x 1372)	10.5 (4.8)
OR250-6	3		2.5" x 6' (63 x 1820)	14 (6.4)
SALCOR® CONNECTOR END LINE HOSE				
OR100-3C	2		1" x 3' (25 x 915)	3.5 (1.6)
OR100-45C	2		1" x 4.5' (25 x 1372)	5 (2.3)
OR100-6C	2		1" x 6' (25 x 1820)	6.5 (2.9)
OR125-3C	2		1.25" x 3' (31.5 x 915)	4.5 (2.0)
OR125-45C	2		1.25" x 4.5' (31.5 x 1372)	6.5 (2.9)
OR125-6C	2		1.25" x 6' (31.5 x 1820)	7 (3.2)
OR150-3C	3		1.5" x 3' (40 x 915)	6 (2.7)
OR150-45C	3		1.5" x 4.5' (40 x 1372)	8 (3.6)
OR150-6C	3		1.5" x 6' (40 x 1820)	9 (4.1)
LINE HOSE CONNECTORS				
ORC100	2		1" x 1' (25.4 x 305)	2.5 (1.1)
ORC125	2		1.25" x 1' (32 x 305)	3.5 (1.6)
ORC150	3		1.5" x 11' (38 x 305)	3 (1.4)

ALL LINE HOSE COMPLIES WITH CURRENT ASTM D1050 SPECIFICATIONS.



PROTECTORS & COVERS

CONVENTIONAL SYSTEM

Insulator Covers, in orange, weather resistant Type II **SALCOR®**, are used with conventional line hose to cover pin-type insulators. All covers feature **RIB-GRIP®** construction to lock to the underside of the insulators. The large diameter arm overlaps the small arm of the adjoining cover on double arm constructions which provides complete insulation at the joint regardless of the varying distance between pins.

Dead End Protectors cover 4.25" and 6" bells or polymer insulators with a skirt diameter of less than 6". The protectors are made from orange Type II **SALCOR®** with **RIB-GRIP®** construction. **OR101** has outer ribs that allow it to be used with 2" and 2.5" I.D. Conventional Line Hose when using the UC2 connector. The smaller **OR114** may also be used to cover transformer bushings up to 4.75" in diameter. **OR124** can cover polymer insulators up to 4.75" in diameter and 25" overall length including hardware. Replacement Straps are available.

To work on live lines safely, conductors encased in a line hose should never be placed directly on a cross arm. **CROSS ARM COVERS** reduce electrical stresses on line hose or jumpers. Cross Arm Covers fit standard cross arm pin spacing and each unit has interior ribs to minimize shifting on the arm.

Flexible **CUTOUT COVERS** can be used for overhead cutouts as well as for underground pad-mount applications. Cutout Covers comply with the current ASTM D1049 (ASTM Specifications for Rubber Insulating Covers) specifications.



OKRG



OR101



OJRG



OR124



OFRG

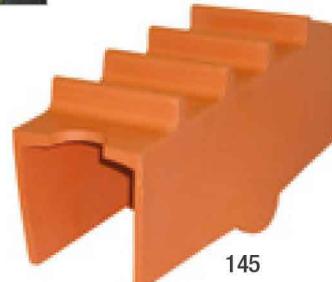


OR114



N36

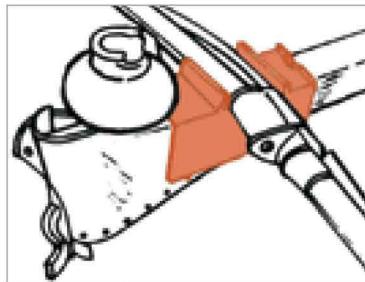
N24



145



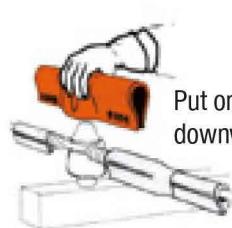
1186



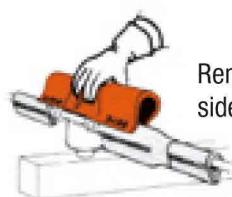
CC24

CAT. NO.	CLASS	DESCRIPTION in (mm)	OVERALL DIMENSIONS in (mm)	WEIGHT EA. lbs. (kgs)
FOR USE WITH				
INSULATOR COVERS				
OFRG	2	55-1/2/3	1" (25.4)	14.5" x 5" (368 x 127)
OJRG	2	55-4	1" (25.4)	16" x 6.5" (406 x 165)
OKRG	3	55-5	1.25", 1.5" (32 , 38)	16" x 8" (406 x 203)
FOR USE WITH				
DEAD END PROTECTORS				
OR101	2	2-6"(152.4)	1" (25.4)	6.5" x 23" (165 x 584)
OR114	3	1-4.25" (108)	1.5" (38)	4.75" x 14" (121 x 356)
OR124	3	2-4.25" (108)	15" (38)	4.75" x 29" (121 x 737)
CROSS ARM COVERS				
USE ON CROSS ARMS UP TO				
145	2	4" x 4.5" (102 x 114)	14.5" x 4.63" x 4.15" (368 x 117 x 105)	3 (1.4)
1186	4	5.5" x 6" (140 x 152)	17.0" x 6.0" x 5.5" (432 x 152 x 140)	5 (2.3)
CUTOUT COVERS				
CC24	2	-	24" x 15" x 3.5" (600 x 376 x 88)	5 (2.3)
CC30	4	-	30" x 20" x 7" (750 x 500 x 175)	10 (4.5)
REPLACEMENT STRAPS				
N24		For 114 & 124 Series	.75 x 30 (18 x 588)	2 oz. (56.7 g)
N36		For 101 Series	.75 x 36 (18 x 882)	2 oz. (56.7 g)

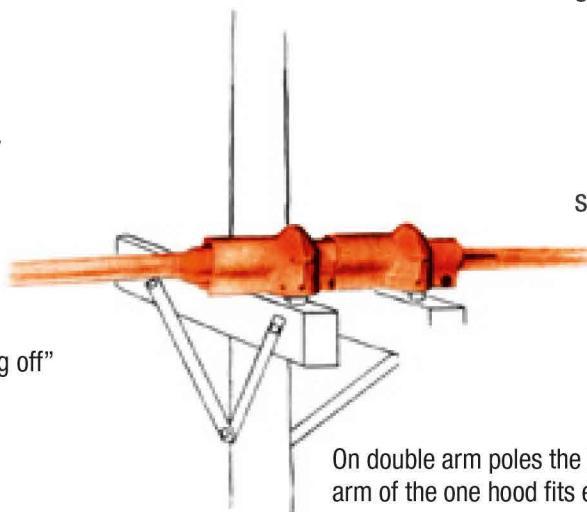
ALL COVERS COMPLY WITH CURRENT ASTM D1049 SPECIFICATIONS.



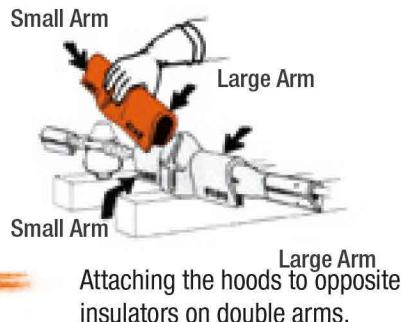
Put on with a firm downward pressure.



Remove by "rolling off" sideways.



On double arm poles the larger extending arm of the one hood fits easily over the small arm of the hood on the opposite insulator.



Small Arm
Large Arm
Small Arm
Large Arm
Attaching the hoods to opposite insulators on double arms.

LINE HOSE

EXTENDED LIP SU SYSTEM

The **EXTENDED LIP SU SYSTEM** is the only complete flexible cover-up available for use on voltages through 34.5 kV. Extremely versatile, it may be installed by hand, wearing rubber insulating gloves, from an insulated aerial device or platform, or with hot sticks using the SU applicators.

Manufactured from superior **SALCOR®** Type II elastomer, it is resistant to the effects of ozone and ultraviolet deterioration. It remains flexible even at sub-zero temperatures.

RIB-GRIP® construction securely interlocks with its corresponding covers and connectors. Tapered lips facilitate easy starting on the conductors. The contour cut ends accommodate the skirts of pin type insulators and permit the hose to cover the line snug to a saddle or clamp.

Available as **STRAIGHT LINE HOSE** or with a Connector End for easier connection of line hose and covers. A lifting eye is molded on the connector end for removal with hot sticks. Line hose is also available with the #2323 Shot Gun Eye Assembly. Just add a suffix of "E" to the catalog number to order the #2323 Shot Gun Assembly installed on the hose or order the #2323 separately.

NEW SU 150 SERIES MOLDED DESIGN the new molded design makes for a consistent overall profile, offers greater electrical insulation between the connector and line hose and since the serrations are also molded an improved locking system.

SU SYSTEM CONNECTORS are made from orange SALCOR® Type II. RIB-GRIP construction is used to ensure a strong lock to the straight lengths of SU System Line Hose and covers. The **UC2** is used to connect Extended Lip Hose to PTHL and LRG Insulator Covers, OR134 Dead End Protectors, and 2" (51 mm) and 2.5" (64 mm) SU System and Conventional Line Hose.

CAT. NO.	DIMENSIONS I.D.	FT. (MM) Length	WEIGHT EA. lbs. (kgs)
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STRAIGHT LINE HOSE CLASS 4, TYPE II

* SU150-3	1.5" (38)	3' (915)	6 (2.7)
* SU150-45	1.5" (38)	4.5' (1372)	8.5 (3.8)
* SU150-6	1.5" (38)	6' (1829)	12 (5.4)
SU200-3	2" (51)	3' (915)	6 (2.7)
SU200-45	2" (51)	4.5' (1372)	10 (4.5)
SU200-6	2" (51)	6' (1829)	14 (6.4)
SU250-3	2.5" (63.5)	3' (915)	7 (3.2)
SU250-45	2.5" (63.5)	4.5' (1372)	11 (5.0)
SU250-6	2.5" (63.5)	6' (1829)	15 (6.8)

CONNECTOR END LINE HOSE CLASS 4, TYPE II

* SU150-3C	1.5" (38)	3' (915)	7 (3.2)
* SU150-45C	1.5" (38)	4.5' (1372)	9 (4.1)
* SU150-6C	1.5" (38)	6' (1829)	12 (5.4)

SU SYSTEM CONNECTORS CLASS 4, TYPE II ASTM D1049

	Length x Height	Use w/ Line Hose I.D.	
UC	10.5" x 6" (263 x 150)	1.5" (40)	2 (.9)
UC2	10.5" x 7.75" (263 x 194)	2" & 2.5" (51 & 64)	3 (1.4)

Add Suffix "E" to Catalog Number to order with #2323 Shot Gun Eye Assembly (see page B-12).

Example: SU200-45E is a 2" ID x 4.5' Line Hose with a shot gun assembly attached

* MOLDED ONCE PIECE DESIGN

COMPLIES WITH CURRENT ASTM D1050 SPECIFICATIONS.



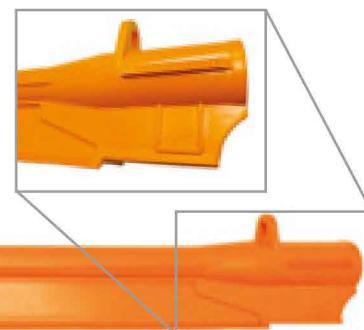
SU150-3C



SU150-45



UC



SU150-6C Molded Design



OR134



RIB-GRIP® Construction



U110



DEAD END PROTECTORS quickly cover dead end bells or polymer insulators providing complete electrical protection for Class 3 and Class 4 applications.

Easily installed and removed from an insulated platform or aerial device with rubber gloves or SU System Applicators.

All styles have RIB-GRIP® construction to interlock with 1.5" (38 mm) I.D. line hose. The Class 3 U106 and U110 must be used with Connector End style line hose or separate Line Hose Connectors. OR134, Class 4, accepts Straight Line Hose. The outer ribs interlock with 2" and 2.5" I.D. line hose when the UC2 SU System Connector is used.

CAT. NO.	ASTM Class / Type	FITS BELL SIZE in. (mm)	DIMENSIONS I.D. Body	IN. (MM) Overall Length	COLOR	WEIGHT EA. lbs. (kgs)
DEAD END PROTECTORS						
OR134	4 / II	3-4.25 (108)	5 (127)	37 (940)	Orange	13 (6)

Add Suffix "E" to Catalog Number to order with #2323 Shot Gun Eye Assembly (see page B-12).

U106	3 / II	2-6 (152)	7 (178)	28.5 (724)	Black	9 (4.1)
U110	3 / II	2-10 (254)	10.5 (267)	28.5 (724)	Black	10 (4.5)

Add Suffix "E" to Catalog Number to order with #2340 Shot Gun Eye Assembly (see page B-12).

ALL PROTECTORS COMPLY WITH CURRENT ASTM D1049 SPECIFICATIONS.

INSULATOR COVERS

EXTENDED LIP SU SYSTEM

The **UH PIN-TYPE COVER** covers insulators up to ANSI standard C29.5 Class 5. The sides are cut to be used on small insulators without resting on the crossarm. When covering a 7" diameter insulator on a double arm construction, the ends of the cover will meet flush on 10.5" pin centers.

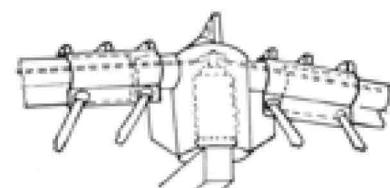
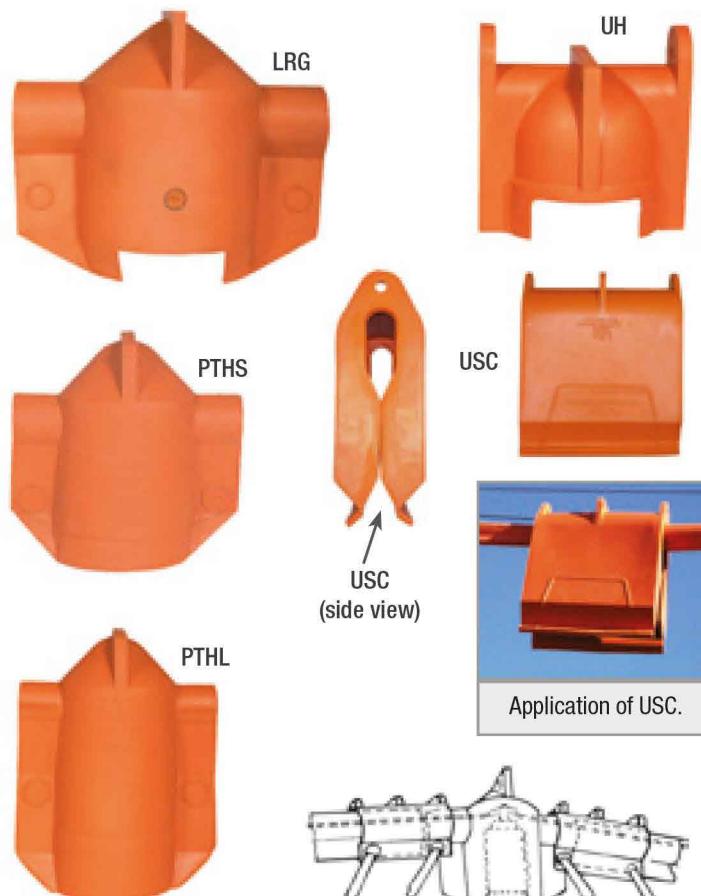
The **LRG SU SYSTEM PIN-TYPE COVER** fits insulators 10.5" (267 mm) in diameter and is used with 2.5" (64 mm) Class 4 Extended Lip SU System Line Hose. Always use clamp pins to secure the device into position. Pinning rings have been placed on the cover's arms to prevent separation.

POST-TYPE INSULATOR COVERS interlock with 1.5" (38 mm) Class 4 Extended Lip SU System or Conventional Line Hose. The **PTHS** for insulators up to 12" (305 mm) and the **PTHL** for insulators up to 16" (406 mm) in height. The **PTHL** cover also has external ribs on the ears which secures 2.5" (64 mm) I.D. line hose. Always use clamp pins to secure the device into position.

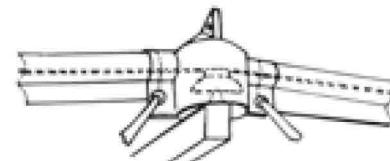
The Class 4 **MRG UNIVERSAL COVER** covers pin-type insulators through 8.5" (216 mm) diameter and 13.8 kV post-type insulators. A trim bead permits use on both 35 kV and 15 kV crossarm construction.

The **USC STIRRUP COVER** is a lightweight cover that can be installed using rubber gloves or a hot stick. The USC also feature RIB-GRIP® construction and is meant to be used with Extended Lip SU Systems or Conventional Line Hose.

All covers are made from orange SALCOR® and feature RIB-GRIP® Construction. They can be installed with a hot stick or rubber gloves. All covers comply with ASTM D1049 specifications.



Post Type Insulator Cover PTHL 2.5" (64mm) Line Hose held in place with UC2 Connector.



Pin Type Insulator Cover - LRG or MRG Line Hose is inserted in the ears of the cover.

CAT. NO.	ASTM Class / Type	FITS LINE HOSE in (mm)	FITS INSUL. Max Dia in. (mm)	FOR USE W/ INSUL. CLASS	OVERALL DIMENSIONS (mm) I.D. body	HEIGHT -in.	WEIGHT EA. lbs. (kgs)
PIN TYPE INSULATOR COVERS							
LRG	4 / II	2.5 (63)	10.5 (263)	55-6	12 (305)	16 (400)	8 (3.6)
MRG	4 / II	1.5-2.5 (40-63)	8.5 (213)	Pin Type 55-5 Post Type 13.2 kV F Neck Post Type 13.2 kV C Neck	9 (221)	12.25 (306)	7 (3.2)
POST TYPE INSULATOR COVERS							
PTHL	4 / II	1.5-2.5 (40-63)	6.5 (163)	57-2	7 (172)	16 (400)	8 (3.6)
PTHS	4 / II	1.5 (40)	7 (175)	57-2	7.5 (184)	12 (300)	4 (1.8)
STIRRUP COVER							
USC	4 / II	1.5 (40)	-	-	14 (263)	15.5 (388)	5 (2.3)

ALL COVERS COMPLY WITH CURRENT ASTM D1049 SPECIFICATIONS.



Cable End Caps are applied with rubber gloves. They are used on high voltage distribution cable ends found in vaults, cubicles and substations when cable remains energized during work. Cable End Caps are made from Type II orange SALCOR®.

NEW LOOPED CABLE END CAP The Looped Cable End Cap is an improved version of our Self-Securing Cable End Cap in that it allows for versatile applications. The product can be applied with appropriate Rubber Insulating Gloves as with our standard cable end caps, but the looped end feature also enables the product to be applied using a hotstick.

SELF-SECURING CABLE END CAPS for Underground Distribution are rated at 20 kV, and have a minimum wall thickness of .25". They keep moisture and contamination off trimmed cable ends. The self-securing slot keeps the cable locked safely inside the end cap. These Cable End Caps are applied with rubber gloves.



LIGHTNING ARRESTER COVERS are made from Type II orange SALCOR®. The slot allows the cap to fit directly over the energized lightning arrester and the line connection. Lightning Arrester Covers can be applied with rubber gloves or a hotstick.

CLEAR CABLE COVERS are made from clear PVC round or oval tube. Each cover has a grip all handle attachment for installation with an insulated grip all hotstick.

CLEAR PVC STRESS CONE COVER has a grip all attachment that allows this cover to be installed with an insulated grip all hotstick. The inspection window can be opened for testing with a voltage sensor.



CAT. NO.	ASTM Class	TYPE	DIMENSIONS in. (mm) I.D. x Length	FOR USE W/ CABLE SIZE	WEIGHT EA. lbs. (kgs)
SELF-SECURING CABLE END CAPS					
29003	2	II	3.19 (81) X 9.13 (486)	-	2.27 (1.0)
117	2	II	1.38" x 10" (35 x 254)	#4/0 to 500 MCM	.50 (.23)
173	2	II	.81" x 6" (21 x 152)	#4 to #4/0 AWG	.25 (.1)
177	2	II	2.25" x 12" (57 x 305)	350 to 750 MCM	.75 (.35)
178	2	II	3.19" x 16" (81 x 406)	800 to 1000 MCM	1.5 (.7)
LIGHTNING ARRESTER COVERS					
536A	4	II	4.5 x 15 (113 x 375)	-	3 (1.4)
636A	4	II	5.5 x 22 (138 x 550)	-	5 (2.3)

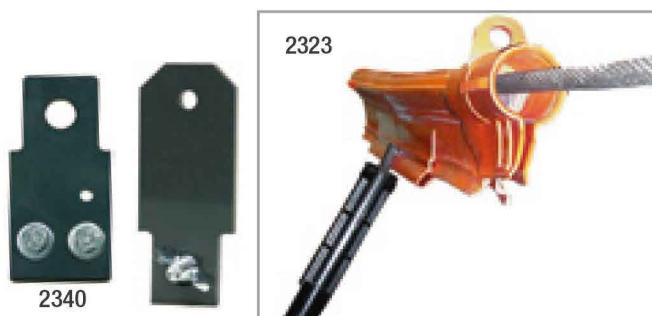
THESE COVERS COMPLY WITH CURRENT ASTM D1049 SPECIFICATIONS.

CAT. NO.	DESCRIPTION	ASTM F712 Class / Rating kV	DIMENSIONS Length in. / I.D. in. / O.D. in.	WEIGHT lbs. (kgs)
CLEAR CABLE COVERS				
14200032P	2" ▲ PVC Cable Cover	2 / 14.6	20 / 2 / 2.38	1.5 (0.68)
14200033P	3" ▲ PVC Cable Cover	2 / 14.6	20 / 3 / 3.38	3.2 (1.45)
14200034P	4" ▲ PVC Cable Cover	2 / 14.6	20 / 4 / 4.38	4.3 (1.95)
14200036P	6" ▲ PVC Cable Cover	2 / 14.6	20 / 6 / 6.5	5.3 (2.41)
CLEAR PVC STRESS CONE COVER				
14200011	-	2 / 14.6	13 / 3 / 3.5	3 (1.36)

THE EXTENDED LIP SU SYSTEM may be installed by using rubber gloves or hot sticks on distribution voltages up to 34.5kV.

The Shot Gun Eye Assembly for the SU System equipment may be purchased separately for installation on the appropriate cover-up device.

The addition of these eye assemblies enable all SU System equipment to be easily handled with a standard shotgun stick.



2323



Shotgun Assembly allows easy installation



2323 Shot Gun Assembly
FOR LINE HOSE ON PAGE B-8

CAT. NO.	DESCRIPTION	FOR USE W/ HOT STICK STYLE	WEIGHT EA. lbs. (kgs)
2323	Shot Gun Eye Assembly for SU Hose / OR134	Shot Gun	1 (.4)
2340	Eye Assembly for SU System D.E. Protectors	Shot Gun	.5 (.2)
2359	Eye Assembly for SU System Insulator Covers	Shot Gun	.5 (.2)



2323

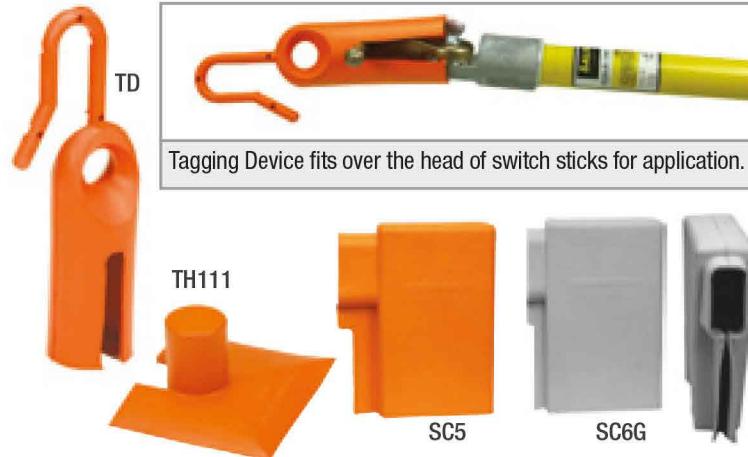
Shotgun Assembly attaches easily to SU Systems

SPECIAL EQUIPMENT

THE TD TAGGING DEVICE, made from molded orange SALCOR®, is used to tag opened disconnect switches. It allows "Hold" cards to be placed on the circuit and fits over the heads of 1-1/4" (32 mm) and 1-1/2" (38 mm) switch sticks.

THE TH111 METER TERMINAL COVER is used to avoid accidental contact with energized parts on 100 and 200 Amp single phase meter sockets. Made of orange SALCOR®.

SPADE COVERS are easily installed to provide temporary insulation when working in padmount transformers and other electrical apparatus. If spade covers are securely held in place, they may be left on spades or connectors indefinitely for front end protection. The larger SC5, SC6, or SC6G are also used to cover primary elbows as well as the larger and longer multiple lead primary and secondary fittings and lugs used in underground enclosures and vaults. Molded from flexible SALCOR®, they have excellent aging and weathering characteristics. The opening at the top end of the slot holds the cover onto the terminal. Wide lips extending along the slot provide additional protection over the connection.



CAT. NO.	DESCRIPTION Dimensions in. (mm)	WEIGHT EA. lbs. (kg)
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TAGGING DEVICE

TD	7.25 (184) long slot: 2.13 x .63 (54 x 16) cup: 2.5 x 1.75 (64 x 44)	.25 (.1)
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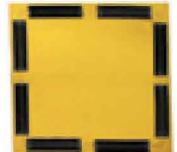
METER TERMINAL COVER

TH111	3 x 3.5 x 1.5 (76 x 89 x 38)	1.6 oz. (.05)
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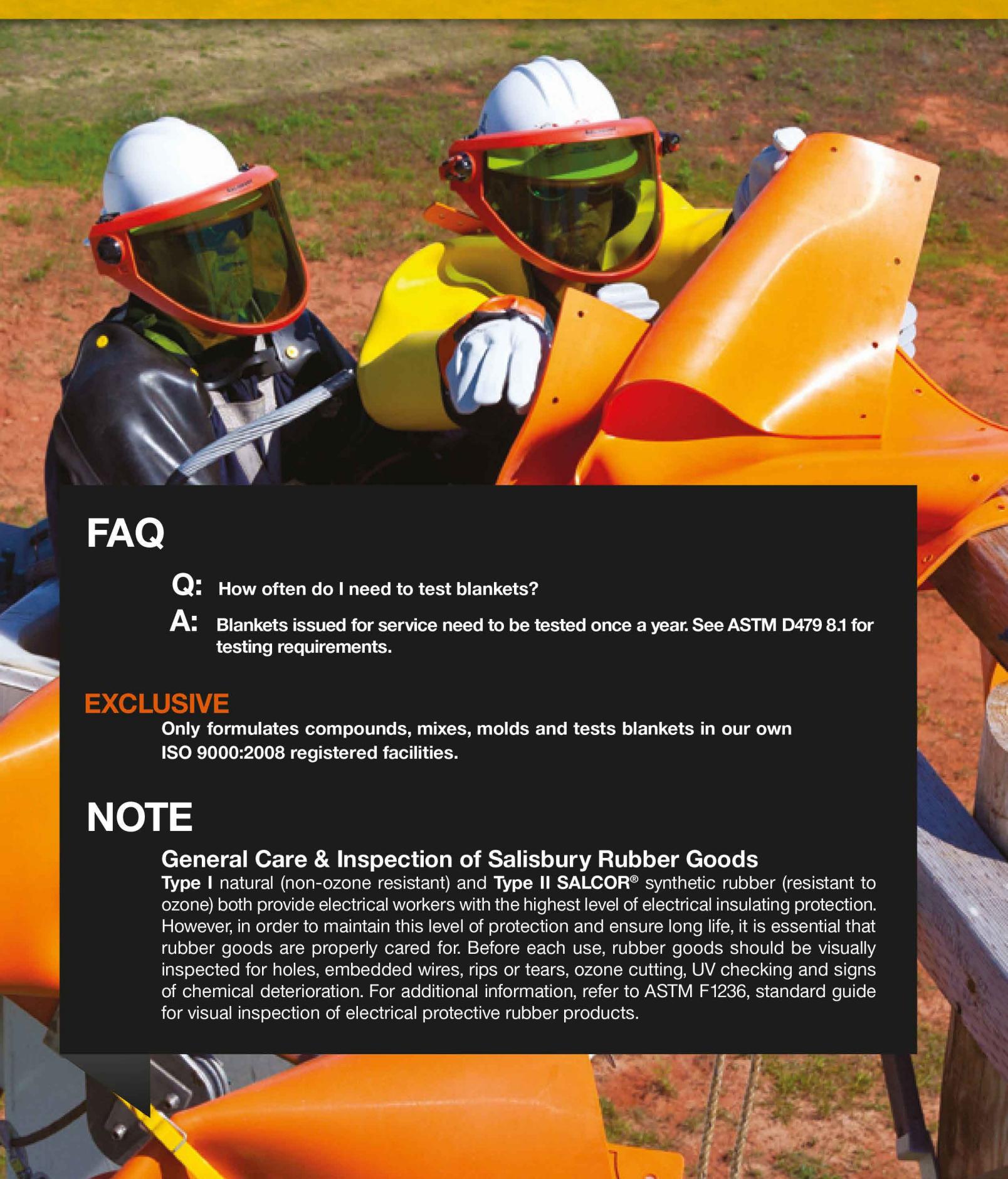
SPADE COVER - CLASS 2, TYPE II, ASTM D1049

SC4	2.75 x 4.4 x 10.75 (70 x 112 x 273), 1 (25.4) Lip Extension	1.4 (.5)
SC5	3 x 6 x 10 (76 x 152 x 254), 2 (51) Lip Extension	2 (.9)
SC6	3 x 6 x 10 (76 x 152 x 254), 1.25 (32) Lip Extension	1.4 (.5)
SC6G	3 x 6 x 10 (76 x 152 x 254), 1.25 (32) Lip Extension	1.4 (.5)

BLANKETS



BLANKETS



FAQ

Q: How often do I need to test blankets?

A: Blankets issued for service need to be tested once a year. See ASTM D479 8.1 for testing requirements.

EXCLUSIVE

Only formulates compounds, mixes, molds and tests blankets in our own ISO 9000:2008 registered facilities.

NOTE

General Care & Inspection of Salisbury Rubber Goods

Type I natural (non-ozone resistant) 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. Before each use, rubber goods should be visually inspected for holes, embedded wires, rips or tears, ozone cutting, UV checking and signs of chemical deterioration. For additional information, refer to ASTM F1236, standard guide for visual inspection of electrical protective rubber products.



900E (36 x 36)



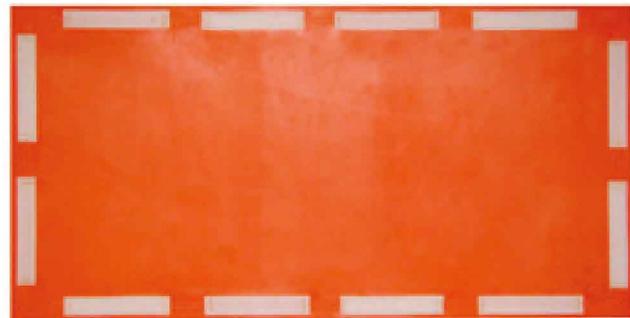
400E (27 x 36)

HIGH QUALITY Salisbury's Type II SALCOR® blankets are of the highest quality available today. They will hold their color and flexibility, and will maintain physical properties and dielectric strength, required by ASTM standard, in the field longer than any other blanket on the market.

OZONE RESISTANT The Orange SALCOR® is manufactured from a well researched blend of prime EPDM, which is naturally resistant to ozone. This blend of Prime EPDM offers superb flexibility; similar to that of a Type I natural rubber blanket. This ensures the Type II SALCOR® blanket will pass the ASTM D 1048 Ozone Tests.

EYELET STYLE INSULATING BLANKETS were designed to be easily secured in place by using Blanket Pins, Snap Buttons or Ty-Straps ([available on page C-9](#)). Eyelet blankets are flexible and feature a reinforced beaded edge and eyelets for added strength and tear-resistance.

Our **ZIP-ON STYLE (ZIP)** features one-inch wide strips of hook and pile that are double stitched to the blanket with nylon thread, so installation and removal is safe and fast.



1830S



Reinforced Beaded Edge

CAT. NO.	EYELETS/ Style	ASTM CLASS	TYPE	SIZE in. (mm)	COLOR	WEIGHT EA. lbs. (kgs)
12	28	2	II	22 x 22 (559 x 559)	Black	3 (1.4)
13	28	4	II	22 x 22 (559 x 559)	Orange	3 (1.4)
13-10	10	4	II	22 x 22 (559 x 559)	Orange	3 (1.4)
400E	6	2	II	27 x 36 (686 x 914)	Black	6 (2.3)
1000E	6	4	II	27 x 36 (686 x 914)	Orange	6 (2.3)
1001E	6	4	II	27 x 36 (686 x 914)	Black	6 (2.3)
300E	6	2	I	36 x 36 (914 x 914)	Black	8 (3.6)
900E	6	4	II	36 x 36 (914 x 914)	Orange	8 (3.6)
901E	6	4	II	36 x 36 (914 x 914)	Black	8 (3.6)
1500	28	2	II	36 x 36 (914 x 914)	Black	8 (3.6)
1700	28	4	II	36 x 36 (914 x 914)	Orange	8 (3.6)

ZIP-ON STYLE

1830S	Zip	4	II	18 x 36 (457 x 914)	Orange	3.5 (1.6)
900EV	Zip	4	II	36 x 36 (914 x 914)	Orange	8.5 (3.9)
1000EV	Zip	4	II	27 x 36 (686 x 914)	Orange	8.1 (3.7)

ALL BLANKETS COMPLY WITH CURRENT ASTM D1048 SPECIFICATIONS.

INSULATING BLANKETS

SLOTTED STYLE & WITHOUT EYELETS

SLOTTED STYLE INSULATING BLANKETS are made of Type II SALCOR® rubber and designed for increased versatility and flexibility in special cover-up situations. Use for covering ridge pins and cross arms with insulators or any place a wire, pin or projection interferes with proper placement of other cover-up devices.

Three sizes are available with reinforced beaded edges and reinforced eyelets which can be secured with Blanket Pins, Snap Buttons or Ty-Straps ([available on Page C-9](#)). Our 36" (914 mm) slotted blanket is also available with 2" (51 mm) or 4.5" (114 mm) center holes and with hook and pile (Zip Style).

Our **ZIP-ON STYLE (ZIP)** features one-inch wide strips of hook and pile that are double stitched to the blanket with nylon thread, so installation and removal is safe and fast.

INSULATING BLANKETS WITHOUT EYELETS

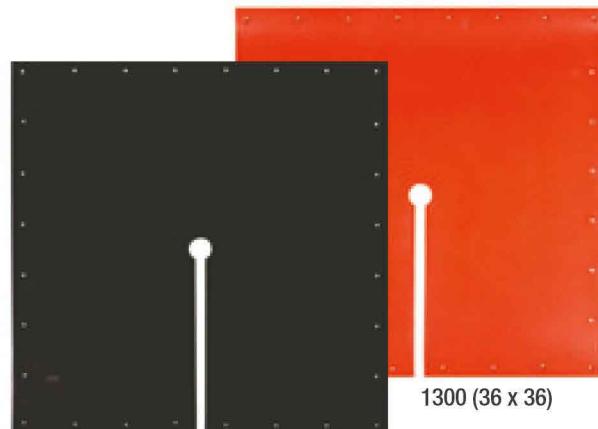
are available in Class 2 and Class 4 in two types of material: Type I natural rubber, and Type II SALCOR®, which is a highly flexible, corona-resistant polymer with excellent aging and weathering qualities.

insulating blankets feature a reinforced beaded edge for added strength and tear-resistance.

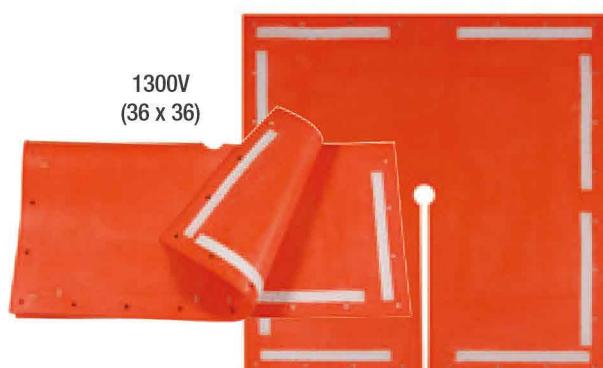
ADVANTAGE

blanket is manufactured from materials that are precisely measured in an automated weighing system to ensure batch-to-batch consistency.

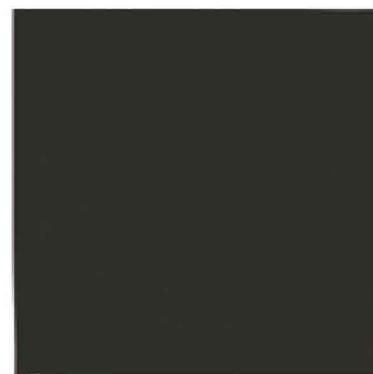
VALUE SALCOR® blankets will last longer and provide maximum value and protection. Not all rubber blankets are manufactured equally.



1301 (36 x 36)



1300V
(36 x 36)



300
(36 x 36)



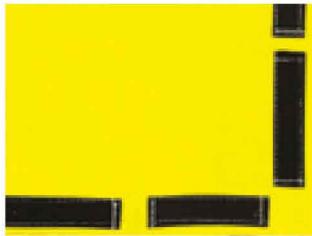
186
(18 x 36)

CAT. NO.	EYELETS	ASTM CLASS	TYPE	SIZE in. (mm)	COLOR	WEIGHT EA. lbs. (kgs)
SLOTTED STYLE BLANKETS						
14	28	2	II	22 x 22 (559 x 559)	Black	2.5 (1.1)
15	28	4	II	22 x 22 (559 x 559)	Orange	2.5 (1.1)
15-1	28	4	II	22 x 22 (559 x 559)	Black	2.5 (1.1)
1100	28	2	II	36 x 36 (914 x 914)	Black	7 (3.2)
1300	28	4	II	36 x 36 (914 x 914)	Orange	7 (3.2)
1301	28	4	II	36 x 36 (914 x 914)	Black	7 (3.2)
1302	2" hole	4	II	36 x 36 (914 x 914)	Orange	7 (3.2)
1304	4.5" hole	4	II	36 x 36 (914 x 914)	Orange	7 (3.2)
SLOTTED ZIP-ON STYLE BLANKETS						
1300V	Zip	4	II	36x36 (914x914)	Orange	7 (3.2)
BLANKETS WITHOUT EYELETS						
186	-	4	II	18 x 36 (457 x 914)	Orange	3.5 (7.7)
300	-	2	I	36 x 36 (914 x 914)	Black	8 (3.6)

ALL BLANKETS COMPLY WITH CURRENT ASTM D1048 SPECIFICATIONS.

LOW VOLTAGE BLANKETS & SWITCHBOARD MATTING

WITH & WITHOUT HOOK AND PILE



1212YLV



1212YLVNV



1212YLV Back side



Installing a Zip-On Blanket

ALL BLANKETS COMPLY WITH CURRENT ASTM D1048 SPECIFICATIONS.

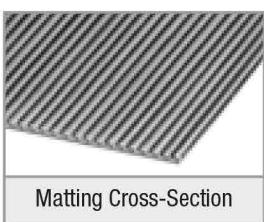
LOW VOLTAGE INSULATING BLANKETS are made of Type II SALCOR® rubber. Insulating blankets are available with or without hook and pile (Zip or Plain style), as noted in the chart below.

Covering energized equipment is easier than ever using Zip-On blankets. Our **ZIP-ON STYLE (ZIP)** features one-inch wide strips of hook and pile that are double stitched to the blanket with nylon thread, so installation and removal is safe and fast. Zip-On blankets can be manufactured to fit special requirements.

SWITCHBOARD MATTING is permanently placed in front of switchgear, motor control centers and other high voltage apparatus to provide personal protection for workers. It is also used when tending take-up and pay out reels and when adding or replacing conductors. Made from high quality Type II material, Class 2 matting is 1/4" (6.4 mm) thick and is tested to 20 kV, and Class 4 matting is 1/2" thick and tested to 40 kV. Matting comply with ASTM D178, Class 2 and Class 4 specifications. The corrugated surface acts as a safety tread while reducing the possibility of metal particles becoming embedded. Class 2 Switchboard Matting is available in 25 yard rolls or custom cut to specified lengths, while Class 4 matting is sold in 20 yard rolls only.



M24-2



Matting Cross-Section



CAT. NO.	STYLE	ASTM CLASS	TYPE	SIZE in. (mm)	COLOR	WEIGHT EA. lbs. (kgs)
1212YLV	Zip	0	II	12 x 12 (305 x 305)	Yellow	1 (.45)
1212YLVNV	Plain	0	II	12 x 12 (305 x 305)	Yellow	1 (.45)
1236YLV	Zip	0	II	12 x 36 (305 x 914)	Yellow	1.5 (.68)
1236YLVNV	Plain	0	II	12 x 36 (305 x 914)	Yellow	1.5 (.68)
1818YLV	Zip	0	II	18 x 18 (457 x 457)	Yellow	1.1 (.48)
1818YLVNV	Plain	0	II	18 x 18 (457 x 457)	Yellow	1.1 (.48)
1836YLV	Zip	0	II	18 x 36 (457 x 914)	Yellow	1.5 (.68)
1836YLVNV	Plain	0	II	18 x 36 (457 x 914)	Yellow	1.5 (.68)
3636YLV	Zip	0	II	36 x 36 (914 x 914)	Yellow	2.2 (1.0)
3636YLVNV	Plain	0	II	36 x 36 (914 x 914)	Yellow	2.2 (1.0)

SWITCHBOARD MATTING

CAT. NO.	DIMENSIONS in. (mm)	WEIGHT lbs. (kgs)
M24-2	1/4 x 24" (6 x 610)	9 (4.1)
M30-2	1/4 x 30" (6 x 762)	12 (5.4)
M36-2	1/4 x 36" (6 x 914)	15 (6.8)
M48-2	1/4 x 48" (6 x 1219)	18 (8.2)
M36-4*	1/2 x 36" x 60 feet long (12 x 914 mm x 18.3 m long)	684 (307.8)

All switchboard matting complies with current ASTM D178 standards

*Sold in full rolls only.

GROUND BARRIER

R96	Carrier Vinyl Roll-Up / Ground Barrier	3.5 (1.6)
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ROLL BLANKETS & INSULATING APRONS

Salisbury has gone to great lengths to protect workers from low voltage electrical hazards, and now offers insulating roll blankets and insulating aprons. insulating **ROLL BLANKETS** and **INSULATING**

APRONS are made from a high strength fabric reinforced Type II rubber in unique colors; making it easy to identify and highly visible in the work area. insulating Type II rubber Roll Blankets and Insulating Aprons, meet ASTM F2320 standards.

ROLL BLANKET line includes a Class 1 (7,500 v)

CLEAR PVC material that permits complete visibility, yet provides the necessary insulating properties meeting ASTM F1742 standards.

The **ROLL BLANKETS** can be easily custom-cut to fit each application at the job site. This minimizes the number of different low voltage blankets sizes and shapes that would otherwise need to be carried from job to job. Each blanket comes in a convenient 36" wide roll, 30 feet in length.

All classes of Roll Blankets are easy to cut, and flexible to -40° F/C. Highly puncture and tear resistant, each class of blanket is also flame (self-extinguishing), oil and ozone resistant.

THE INSULATING APRON includes two Nomex® webbed bib straps and two Nomex® waist straps with nonmetallic buckles. All the straps are attached with reinforced stitching and Nomex® thread. The insulating apron has straps that can be buckled around the back and around the neck which gives wearers a comfortable and supportive fit. The straps are adjustable so that one size will fit most wearers. The apron measures 42" from the top of the bib and has a full width of 30" to wrap around the front of most workers. Use these aprons where there is a possibility of accidental contact with energized equipment or lines. These products are not intended for purposeful contact with energized equipment.

CAT. NO.	ASTM CLASS	TYPE	SIZE feet (m)	COLOR	WEIGHT EA. lbs. (kgs)
ROLL BLANKETS					
RLB00	00	II	3' x 30' (.9 x 9)	Brown	20 (9)
RLB0	0	II	3' x 30' (.9 x 9)	Yellow	26 (11.8)
RLB1	1	II	3' x 30' (.9 x 9)	Yellow / Orange	36 (16.4)
RLBPVC1	1	-	3' x 50' (.9 x 9)	Clear	60 (27.3)
RLBPVC1-48	1	-	4' x 30' (1.2 x 9)	Clear	48 (21.7)

INSULATING APRONS

APR00	00	II	One Size Fits Most	Brown	1.95 (.88)
APR0	0	II	One Size Fits Most	Yellow	2.53 (1.15)
APR1	1	II	One Size Fits Most	Yellow / Orange	3.5 (1.59)

Roll Blankets are available in full rolls plus or minus 5%.



Roll Blankets can be easily cut to size and fit for customized applications to each job.



ARC45-15



ARC45-40

BY HONEYWELL ARC PROTECTION BLANKETS

are available in 4' x 5' and 4' x 8' sizes. Each size is available in 15 kA or 40 kA ratings. The 15 kA blankets include convenient loops and the 40 kA blankets include grommets to easily keep the blanket in place. These new blankets are sold individually or with a storage bag or storage bag and tie-strap kit.

The Arc Suppression Blanket is used as a barrier for protection from the explosive and incendiary effects of electrical arcs and flashes. These hazardous electrical discharges can be caused by faults in cables, in cable splices and joints, and at transformer terminals, or they may be generated by the operation of switch gear, circuit breakers and lightning arrestors. The blanket can be used for worker protection in underground vaults, switchyards and other locations where electrical equipment poses a risk of exposure to explosive electrical discharges.

NOTE: These products do not eliminate or reduce requirements for proper PPE for arc flash protection

WARNING: Because of the un-predictability of electrical arcs, the Arc Protective Blanket (APB) may not totally contain the arc and flashes, but only reduce or limit explosive and incendiary effects. Properly installed APB's can reduce the risk of injury from the blast and heat. They do not provide any personal protection for hearing, eyes, smoke inhalation, hazardous gas inhalation or burns.

WARNING: Arc Protective Blankets are not designed for electrical insulating protection. Using the Arc Protective Blanket for electrical insulating protection can result in serious injury or death.

MEETS ASTM F2676 STANDARD *ASTM Standard for Testing of Arc Blankets*

Arc protective blankets are used in many electrical applications to protect workers who are stationed near energized electrical parts. While these blankets have been used for years, there have been no testing criteria for their evaluation. A ASTM International standard used to determine the effectiveness of arc protective blankets in suppressing the combined effect of an arc flash and an arc blast. This standard gives companies the ability to evaluate blankets with a repeatable standard that can be done at many test labs using an electric arc and a high speed camera.

CAT. NO.	DIMENSIONS in. (mm)	DESCRIPTION	WEIGHT EA. lbs. (kgs)
ARC45-15	48 x 60 (1219 x 1524)	15 kA rating - navy blue	10 (4.5)
ARC45-40	48 x 60 (1219 x 1524)	40 kA rating -gray/khaki	10 (4.5)
ARC48-15	48 x 96 (1219 x 2438)	15 kA rating - navy blue	15 (6.8)
ARC48-40	48 x 96 (1219 x 2438)	40 kA rating -gray/khaki	15 (6.8)
	-Add suffix "P" to include storage bag. -Add suffix "C" to include P4 canister.	-Add suffix "PS" to include storage bag and tie-straps. -Add suffix "CS" to include P4 canister and tie-straps.	
ARC142	1 x 42 (25.4 x 1067)	Single Kevlar Strap w/ Buckle	
ARC142-K16	-	ARC48 Strap Kit With 16 Buckles	4 (1.8)
ARC142-K12	-	ARC45 Strap Kit With 12 Buckles	3 (1.4)
P4	7 x 37 (178 x 940)	Canister holds 1-4 blankets w/ max. size 36" (914 mm)	3.5 (1.6)

BLANKET ACCESSORIES

CLAMP PINS

In addition to other uses in the utility industry, **BLANKET CLAMP PINS** can be effectively used to hold insulating blankets and rubber cover-up in place. Springs are used for tension while extra holes in the body of the pin are used to grip conductors and prevent line hose from sliding.

The Salisbury **21 BLANKET PIN** has been improved to make it the most versatile pin on the market. Although the 21 pin always opened to accommodate just about any width needed, it has been redesigned to open to a full 5 1/2 inches. That's the widest of any standard plastic pin in the industry. To accommodate application using a hot stick, the ends of the pin have been tapered to fit into the end of any brand clampstick. This allows the same 21 pin to be installed in line with the stick. For applications where a 90 degree angle of application and removal is necessary, the time proven HS21 pin fills the bill. Look for the new 21 pin to be supplied with your next pin order.

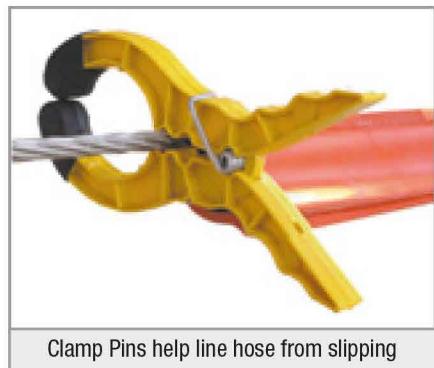
Blanket pins are made of fiberglass reinforced nylon or sliver-free hardwoods. Most pins have molded rubber tips to increase slip resistance.

CAT. NO.	DESCRIPTION	LENGTH in. (mm)	JAW OPENING in. (mm)	WEIGHT EA. lbs. (kgs)
WOOD CLAMPS				
20	Wood w/ pin boots	8.5 (216)	4.75 (121)	.33 (.15)
25	Wood w/o pin boots	7 (178)	1.6 (41)	.25 (.11)
26	Wood w/ pin boots	10 (254)	7 (178)	.5 (.23)
YN20	Wood w/ Sure grip	8.5 (216)	4.75 (121)	.33 (.15)

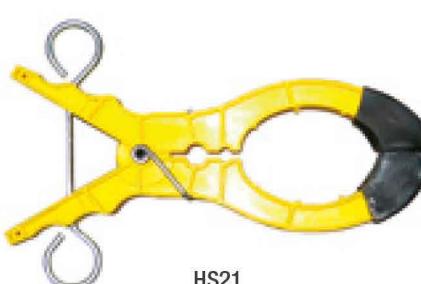
NYLON CLAMPS

HS21	Nylon w/ pin boots	9.5 (241)	5 (127)	.37 (.17)
21	Nylon w/ pin boots	9.5 (241)	5 (127)	.37 (.17)

Optionally applied with Shotgun Stick



Clamp Pins help line hose from slipping



HS21



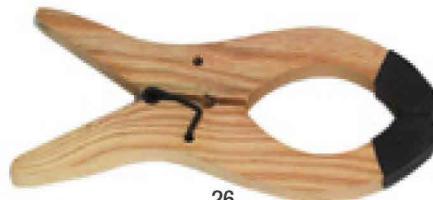
Salisbury 21 Blanket Pin



20



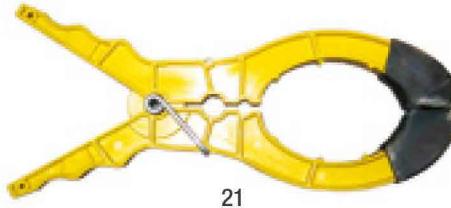
25



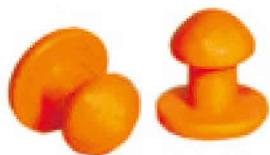
26



YN20



21



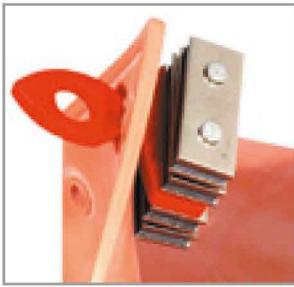
B1



B23



MB6



TY14

BLANKET BUTTONS are designed to secure eyelet-style insulating blankets. The B1 button, made of orange plastic, snaps through the eyelet with thumb pressure on the large head. The bright orange polystyrene **B23** two-way buttons are inserted into the eyelets for use with a shotgun clamp stick or standard-duty switch stick.

MAGNETIC BLANKET BUTTONS are designed for use in eyelets of insulating blankets when covering energized portions in hard-to-cover areas like pad mounts, cubicles, switchboards and substations. Four permanent floating magnets are mounted between nickel-plated steel plates. May be applied manually, wearing rubber gloves, or with a shot-gun stick.

TY-STRAPS are 14" (356 mm) and 30" (762 mm) long and made of 1 1/2" (38 mm) wide strips of rubber with hook and pile fasteners affixed to each end. The worker simply wraps the Ty-Strap around the positioned blanket and presses the hook and pile ends together. Contact your local representative for custom length Ty-Straps.

CAT. NO.	DESCRIPTION	WEIGHT EA. lbs. (kgs)
B1	Snap-Button, Orange	1 oz. (.03)
B23	Two-Way Button, Orange	1 oz. (.03)
MB6	Magnetic Blanket Button	7 oz. (.2)
TY14	Ty-Straps, 14" (356mm) long	2 oz. (.06)
TY30	Ty-Straps, 30" (762mm) long	4 oz. (.12)



BLANKET ACCESSORIES

STORAGE

BLANKET CANISTERS are molded in bright orange, hi-impact, polyethylene to protect insulating blankets when not in use. A tight-fitting cap is secured to the canister with polypropylene rope.

Salisbury's **P4H BLANKET CANISTER** Revolutionizes the way you'll store your blankets. The P4H canister has a sturdier construction than the regular P4, with integrated feet to keep the canister from rolling while being transported by truck or stored at the workplace. The ergonomic handle runs the entire length of the canister, making lifting and carrying up to four 36" x 36" blankets much easier. Slots are provided within the canister to allow it to be secured in buckets or on trucks.

BLANKET ROLL UPS provide a safe and convenient means for protecting blankets from damage while in transport or storage. Ruggedly constructed of 18 oz. vinyl with side flaps to confine the blankets into position and prevent damage to the edges. Two heavy 33" web straps with buckles close the roll-up, and includes a web carrying handle.

STORAGE TIPS: When more than one blanket is stored, the most convenient method of loading is to roll and insert each blanket into the canister independently. A single blanket can then be removed without removing the others. For maximum useful life, never fold, crease or compress insulating blankets while in storage.



22



CAT. NO.	DESCRIPTION	FITS BLANKET MAX SIZE in. (mm)	DIMENSIONS in. (mm)	CAPACITY	WEIGHT EA. lbs. (kgs)
P2	Canister	36 (914)	5 x 37 (127 x 940)	1-2 blankets	2 (.9)
P3	Canister	36 (914)	6 x 37 (152 x 940)	1-3 blankets	3 (1.4)
P4	Canister	36 (914)	7 x 37 (178 x 940)	1-4 blankets	3.5 (1.6)
P4H	Canister	36 (914)	7 x 37 (178 x 940)	1-4 blankets	3.5 (1.6)
P6	Canister	36 (914)	9 x 37 (229 x 940)	1-6 blankets	5 (2.3)
P3-47	Canister	46 (1168)	6 x 47 (152 x 1194)	1-2 blankets	4 (1.8)
22	Roll-up (vinyl)	22 (559)	56 x 42 (1651 x 1067)	1-4 blankets	1.5 (.68)
36	Roll-up (vinyl)	36 (914) or 46 (1168)	67 x 55 (1702 x 1397)	1-4 blankets	2.5 (1.1)
46	Roll-up (vinyl)	36 (914) or 46 (1168)	70 x 55 (1778 x 1397)	1-4 blankets	4 (1.8)

INSULATING PLASTIC GUARDS & COVERS



INSULATING PLASTIC GUARDS & COVERS



TESTING

ASTM F712 TABLE 3 Typical Electrodes for Testing Plastic Guard Equipment

Types of Guards	Energized Inner Electrode for All Tests ^A	Outer Ground Electrode ^A	
		Proof Test	Flashover and Leakage Tests
Line guards and line guard connectors	Round metal tube or bar.	Complete electrode ^B shall be spaced back from openings through which the energized electrode protrudes during the test only as necessary to avoid flashover. Therefore, the entire area of each cover shall be tested as nearly as practical.	4 x 6" Flexible conductive pad placed alternately on all exterior surfaces and across conductor opening of guard and assembled guard system joints spaced back from openings through which the energized electrode protrudes during the test only as necessary to avoid flashover at outer ends.
Insulator covers and dead-end covers	Maximum conductor, hardware and insulator assembly for which rated or similar mock-up including mandrel ^C of conductive material approximate. ^D		
Pole guards, ridge pin and switch blade covers	^E Round metal tube, fabricated mandrel ^E or cluster small metal tubes. ^D		
Arm guards Cutout covers	Round or rectangular metal tube or fabricated mandrel ^C Largest cutout with bare leads covered with equal rated line hose. Or similar mock-up including mandrel ^C of conductive material. ^D		
Structural barrier	Rectangular metal sheets approximately 3 mm (0.06") thick, having smoothly rounded edges and corners, have been found to be satisfactory for this purpose. Also satisfactory are wet felt or sponge-top electrodes.		

^A Moistened electrodes may be secured with rubber straps or blanket pins. Pressure-sensitive tape is helpful in securing dry metal foil electrodes.

^B Suitable materials include: metal foil or screen; tap water-moistened sponge sheeting, or blanket made of wool, or similar material including synthetics.

^C Thin metal sheet or screen wire secured on wood frames make suitable electrodes. Carved synthetic sponge moistened with tap water is suitable for small forms.

^D The dimensions of the mandrel are to approximate the maximum size of equipment to which the guard system is to be applied.

^E Metal canisters made for storing rubber blankets make suitable electrodes for pole guard tests.

ASTM F712
TABLE 2 Minimum Flashover Test^a

Rating, kV	Max Use 60 Hz	Min Flashover Voltage Test f -Ground kV	Criteria
0-0 ^a	0-Ground	60 Hz	DC
2	14.6	8.4	14.0
3	26.4	15.3	25.0
4	36.6	21.1	34.0
5	48.3	27.0	43.0
6	72.5	41.8	67.0
			95

^a Cover-up materials are tested at values greater than the maximum use phase to ground values. The maximum use phase to phase values relate to guarded phase to guarded phase. The units are not rated for bare phase to guarded phase potentials.

GUARDS AND COVERS are intended for brush contact applications. All guards can be coupled together to cover any length required.

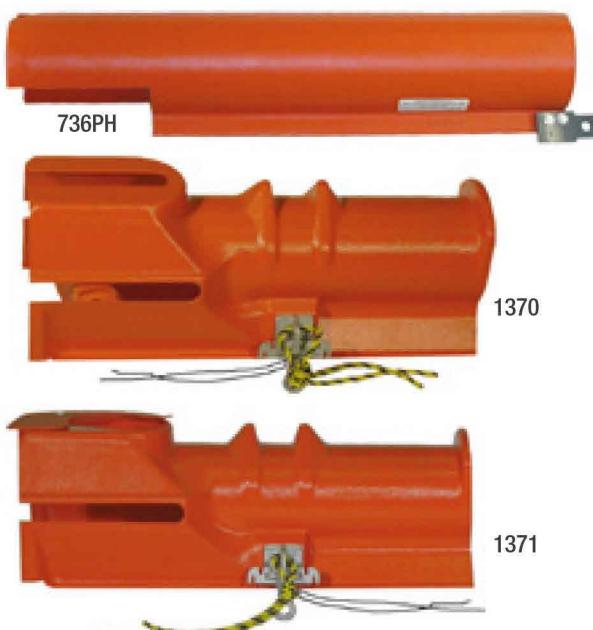
Guards and covers are available in three different grades: Grade 1 with hot stick handles attached for application and removal, Grade 2 with eye fittings for standard shotgun sticks and Grade 3 without eye fittings. Guards are designed to nest within each other for storage.

The guards and covers are made from two different orange thermoplastics: Type I is an ABS standard cold weather high impact plastic and Type III is an ABS/PVC weather resistant material that offers advantages in tensile and impact strength, hardness, UV stability and flame resistance.

ALWAYS FOLLOW YOUR COMPANY'S SAFETY PROCEDURES.

Rubber insulating equipment is realistically limited to Class 4 material in the design specification standards. Plastic guard equipment has been designed to go beyond these voltages and provide a satisfactory degree of worker protection. Major differences exist in use criteria between the rubber and the plastic guard equipment. Each glove, sleeve or other article of rubber insulating equipment has a given safety factor for the phase to phase voltage on which it may be used and the class or proof voltage at which it is tested. Plastic guard equipment; however, is designed to provide a satisfactory safety factor only when used in a phase-to-ground exposure. If exposure is phase-to-phase, then a satisfactory safety factor is only provided if the exposure is covered-phase-to-covered-phase.

CROSSARM GUARDS



CROSSARM GUARDS are available in two different styles: the 1370 pin type and the 1371 post type. They are used to prevent tie wires from contacting crossarms during hot line operations. Two different tie downs are provided: a neoprene and a polypropylene rope. Both are secured in the slots provided in the eye fitting. The post type model has an automatic gap closer which covers the insulator slot opening over the end of the arm.

The **SLIDE-ON CROSSARM GUARD** 736PH is applied by sliding the cover on to the arm from the end using the shotgun eye until the unit locks onto the insulator pins. The cover overlaps on top and has notches to ease application and removal.

Both of these guards are made from orange Type I ABS cold weather high impact plastic. These guards have a voltage rating of 36.6 kV*.

*guarded Ø to guarded Ø .



CAT. NO.	DESCRIPTION	DIMENSIONS in. (mm)	ASTM VOLTAGE CLASS	WEIGHT EA. lbs. (kgs)
1370	Crossarm or Pin Type Guard	9 x 9 x 25.5 (229 x 229 x 648) Fits Crossarm: 5 x 6 (127 x 152)	4	5.7 (2.6)
1371	Crossarm or Post Type Guard		4	6.0 (2.7)
736PH	Slide-On Crossarm Guard	7" I.D. x 36" (178 I.D. x 914)	4	4.5 (2)

ALL GUARDS ARE TESTED TO ASTM F712

POLE GUARDS are installed before setting new poles to guard against accidental line contact. They also guard against pole contacts by personnel working in insulating aerial buckets or on platforms. Pole Guards are made from orange, Type I ABS, cold weather, high impact thermoplastic.

Pole Guards feature the unique Air Gap® design. Uniformly spaced dimples minimize the amount of surface area contacting the pole. This provides added insulation to keep electrical leakage to a minimum. When two pole guards are used to cover longer lengths, the Air Gap® dimples nest together “locking” the two together with ample overlap. **This is an exclusive feature to Pole Guards.** The Air Gap® design also allows for air flow between it and the pole minimizing moisture condensation and contamination buildup.

All Pole Guards include drilled rope handles for easy application.

Pole Guards should be used for brush contact. The opening should face away from possible line contacts, whenever possible. Pole Guards should be stored indoors to avoid prolonged exposure to UV rays and can be cleaned with a warm detergent solution.

CAT. NO.	CLASS	DIAMETER in. (cm)	LENGTH ft. (cm)	WEIGHT EA. lbs. (kgs)
2851	4	6" (15.2)	X 1' (30.5)	1.8 (0.8)
2852	4	6" (15.2)	X 2' (61.0)	3.6 (1.6)
2853	4	6" (15.2)	X 3' (91.4)	5.3 (2.4)
2854	4	6" (15.2)	X 4' (121.9)	7.1 (3.2)
2856	4	6" (15.2)	X 6' (182.9)	10.7 (4.9)
1385	4	9" (22.9)	X 1' (30.5)	2.3 (1.1)
1386	4	9" (22.9)	X 2' (61.0)	4.6 (2.1)
1356	4	9" (22.9)	X 3' (91.4)	6.9 (3.1)
1357	4	9" (22.9)	X 4' (121.9)	9.2 (4.2)
2496	4	9" (22.9)	X 6' (182.9)	13.8 (6.3)
2461	4	12" (30.5)	X 1' (30.5)	2.7 (1.3)
2462	4	12" (30.5)	X 2' (61.0)	5.3 (2.4)
2464	4	12" (30.5)	X 4' (121.9)	10.7 (4.9)
2466	4	12" (30.5)	X 6' (182.9)	16 (7.3)
21837	4	9" (22.9)	X 4' (121.0)	9.2 (4.2)
21936	4	7" (17.8)	X 2' (61.0)	3.8 (1.7)
29024	5	9" (22.9)	X 1' (30.5)	2.3 (1.1)
29023	5	9" (22.9)	X 2' (60.9)	4.6 (2.1)
29022	5	9" (22.9)	X 3' (91.4)	6.9 (3.1)
29021	5	9" (22.9)	X 4' (121.9)	9.2 (4.2)
2486	5	9" (22.9)	X 6' (182.9)	13.8 (6.3)
29028	5	12" (30.5)	X 1' (30.5)	2.7 (1.3)
29027	5	12" (30.5)	X 2' (60.9)	5.3 (2.4)
29026	5	12" (30.5)	X 3' (91.4)	8.0 (3.6)
29025	5	12" (30.5)	X 4' (121.9)	10.7 (4.9)
2478	5	12" (30.5)	X 6' (182.9)	16.0 (7.3)

ALL GUARDS ARE TESTED TO ASTM F712

Class 5 Air Gap® Pole Guards

NEW



29025



The 21936 Pole Guard includes cut-out to allow clearance for a line post insulator base which is mounted to a utility pole.



2856



Strong memory improves grip when applied to the utility pole. The pole guard has high impact properties suitable for cold weather service.



Versa Guards® and Link Guard® Cross Section



2475

2884

VERSA GUARDS® AND LINK GUARDS make use of air as well as the dielectric strength of plastic to provide total insulating value. Both guards have a 7" diameter and a hook shaped inner lip to keep the guard in place.

VERSA GUARDS®, with a voltage rating of 36.6 kV*, are designed so that two guards can be coupled together to cover most 13 kV single and double arm, pin and post constructions. A lighter 47" version (**2389**) of the standard 4.5' Versa Guard is available in a Type III ABS/PVC weather resistant material.

LINK GUARDS®, with a voltage rating of 72.5kV*, have inner and outer shells that run full length to include male and female couple ends. Two guards connected provide four overlapping thicknesses of plastic plus air at a joint.

TEE CONNECTORS are used on horizontal and vertical posts and suspension insulator strings when plastic line guards are used on the conductor. Made from Type I, ABS plastic with eye fittings, the connector accommodates the male end of a guard. Available in two ratings: 72.5 kV* and 48.3 kV*. Accepts 34.5 kV pin insulators along with post and insulator strings.

Bags are available on page D-10.

*guarded Ø to guarded Ø .



1686

CAT. NO.	DESCRIPTION	TYPE	ASTM VOLTAGE CLASS	GRADE	WEIGHT EA. lbs. (kgs)
VERSA GUARDS®- 4.5' (1.37 M)					
1686	ABS	Eye	I	4	2
1687	ABS	4' Stick	I	4	1
1688	ABS	6' Stick	I	4	1
2373	ABS/PVC	Eye	III	4	2
2377	ABS/PVC	4' Stick	III	4	1
2378	ABS/PVC	6' Stick	III	4	1
VERSA GUARDS®- 3.92' (1.19 M)					
2389	ABS/PVC	4' Stick	III	4	1
2689	ABS/PVC	Eye	III	4	2
LINK GUARDS®- 4.5' (1.37 M)					
1680	ABS	Eye	I	6	2
1681	ABS	4' Stick	I	6	1
1682	ABS	6' Stick	I	6	1
2475	ABS/PVC	Eye	III	6	2
2476	ABS/PVC	4' Stick	III	6	1
2477	ABS/PVC	6' Stick	III	6	1
TEE CONNECTORS					
2224	ABS	Eye	I	6	2
2884	ABS	Eye	I	5	2
ALL GUARDS ARE TESTED TO ASTM F712					

LIGHTWEIGHT CONDUCTOR COVERS

LIGHTWEIGHT CONDUCTOR COVERS are ideal to cover long spans when weight is a consideration. They can be applied when wearing rubber gloves or with a fiberglass hotstick. Available with an eye for application with clampsticks. These covers have a voltage rating of 26.4 kV*. The inside diameter is 2". This product can connect with 1.5" I.D. Class 3 or 4 flexible cover-up equipment.

The **21826 LIGHTWEIGHT CONDUCTOR COVER** is a six foot 36.6 kV* class 4 rated cover. It is applied using rubber gloves when following appropriate company work rules. The inside diameter is 3" making it useful on a wide range of conductor sizes.

The unique "connector-stop" molded into one end prevents covers from overlapping during installation. This eliminates wasted time when trucks have to be moved to reconnect sections that did not couple correctly. This cover is also compatible with 1.5" I.D. Class 3 or 4 flexible rubber line hose.

All of our lightweight covers are made from orange Type I high density cross link polyethylene.

*guarded Ø to guarded Ø .

CAT. NO.	DESCRIPTION ft. (m)	ASTM VOLTAGE CLASS	GRADE	WEIGHT EA. lbs. (kgs)
26.4 KV GUARDED PHASE TO GUARDED PHASE				
21172	5' (1.5) Cover w/ Eye	3	2	4.0 (1.8)
21173	5' (1.5) Cover w/o Eye	3	--	3.0 (1.4)
21315	5' (1.5) Cover w/ 4' (1.2) Fiberglass Stick	3	1	5.0 (2.25)
21234	Adapter Eye	3	--	1.5 (0.7)
36.6 KV GUARDED PHASE TO GUARDED PHASE				
21826	6' (1.8) Cover	4	--	6.5 (2.95)

ALL GUARDS ARE TESTED TO ASTM F712



Conductor Covers connect easily with either plastic or rubber line hose



21826 Unique Connector Stop



21826



21173



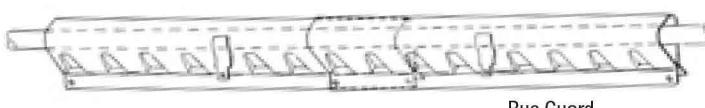
21172



21315



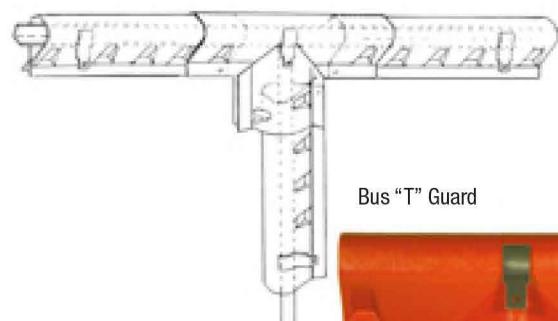
21234 Adapter Eye



Bus Guard

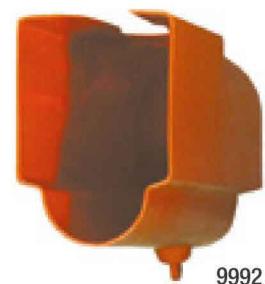
1374

Eye kit is available on page D-10.



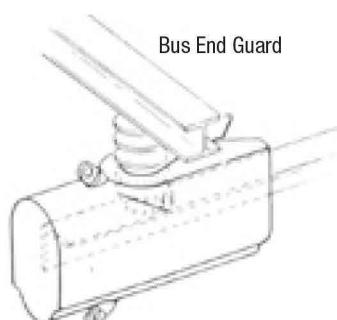
Bus "T" Guard

1375



9992

Bus End Guard



SUBSTATION COVER-UP and barrier equipment is used during routine maintenance where accidental contact may occur. This barrier equipment is often used where outages are difficult to reach and the occurrence of accidental contact is high. These covers may be applied with rubber gloves or hot sticks. These covers are made from Type I orange ABS plastic. This equipment is not intended for permanent or semipermanent barrier or insulating applications. The use of these covers is to protect against accidental contact only. These covers are not to be left installed for extended periods of time especially when in contact with both a grounded and energized object.

BUS GUARDS are easily interlocked with each other. To interlock units, determine the length of bus to be covered. Place one unit on the bus guard then the other, pulling it over the first cover until the dimples interlock at the required length. This guard has a voltage rating of 36.6 kV*.

BUS "T" GUARDS interlock two or three bus guards at bus tap "T" connections and 90 degree angles. To interlock units, first position the bus guard. Then, slide the "T" guard over the top and interlock the dimples. This guard has a voltage rating of 36.6 kV*.

BUS END GUARDS cover the ends of a substation bus supported by station post insulators. The slot and insulator grip hole can be easily enlarged in the field with a sharp knife. This cover also has a guide bead for a trim fit. This guard has a voltage rating of 26.4 kV*.

*guarded Ø to guarded Ø .

CAT. NO.	DIMENSION in. (mm)	DESCRIPTION	ASTM VOLTAGE CLASS	WEIGHT EA. lbs. (kgs)
BUS GUARD				
1374	5.25" x 9.5" x 4.5" (133 x 241 x 14.6)	Impact Resistant ABS Plastic	4	6.0 (2.7)
BUS "T" GUARD				
1375	5" x 15" x 25" (127 x 381 x 635)	Impact Resistant ABS Plastic	4	4.0 (1.8)
BUS END GUARD				
9992	8.5" x 12" x 24" (216 x 305 x 610)	UV Resistant High Density Cross Linked Polyethylene	3	5.0 (2.3)

SUBSTATION COVER-UP

SWITCH JAW GUARD & BARRIER

SWITCH JAW GUARDS insulate the energized upper switch jaw and insulator when work is being done on the switch blade, lower insulator or other de-energized equipment ahead of the open switch. These guards easily slide over the upper insulator on open substation switches and lock over the bus. Jaw Guards are made from Type I UV resistant plastic. offers switch jaw guards rated at both 26.4 kV* and 14.6 kV*.

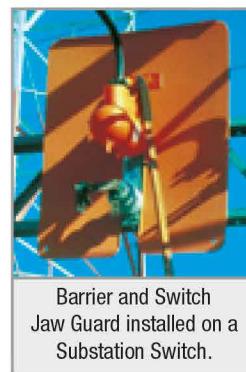
The **24219 SWITCH JAW COVER** provides an insulated barrier to the energized upper switch jaw and insulator, when work is being done on the switch blade, lower insulator or other de-energized equipment ahead of the open switch. This guard slides easily over the upper insulator on open substation neutral disconnect cabinet switches and locks over the bus. The 24219 Cover is made from Type I cold weather high impact plastic. This guard has a voltage rating of 14.6 kV*.

SWITCH BARRIERS slide between the last two skirts on the post or pin cap insulators of the substation disconnect switch. This locks the barrier in place. When switches are mounted back to back and work is needed on one switch, the barrier can be placed on the energized switch to form a visible, electrical and mechanical barrier. Work can then be done on the opposite switch or other de-energized equipment. This guard has a voltage rating of 36.6 kV*.

*guarded Ø to guarded Ø .



1376



Barrier and Switch
Jaw Guard installed on a
Substation Switch.



24455

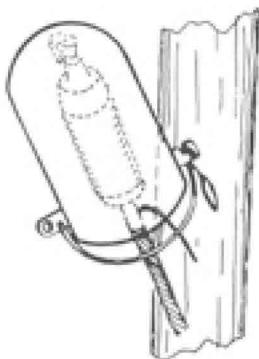


2418

CAT. NO.	DIMENSIONS in. (mm)	DESCRIPTION	ASTM VOLTAGE CLASS	WEIGHT EA. lbs. (kgs)
JAW GUARD				
2418	8" D. x 18" (203 D. x 457)	Use w/ switch 8"(203) Dia. Insulated	3	4 (1.8)
2424	8" D. x 24" (203 D. x 610)	Use w/ switch 8"(203) Dia. Insulated	3	5 (2.3)
24455	8" D. x 16" (203 D. x 406)	Use w/ switch 8"(203) Dia. Insulated	2	2.25 (1.14)
2413	13" D. x 24" (330 D. x 610)	Use w/ switch 13"(330) Dia. Pin Cap Insulators	3	7 (3.2)
BARRIER				
1376	.125"x43"x52" (3.2 x 1092 x 1320) 5" (127) slot to center	Orange Type I High Impact ABS Plastic	4	12 (5.5)



816



4333



Pole Bracket and Insulator Base Cover



4314



Elbow Cover Application

The **UNIVERSAL HOT COVER** is used to provide additional cover-up and clearances. This cover is made from orange Type I polyethylene plastic. The hotstick eye allows this cover to be placed and removed with a shotgun type clamp stick or with rubber gloves. To secure in place, use the elastic tie-down cord. This cover can be used on overhead or underground energized cable terminators, pothead or while inverted, on lightning arrestors. This cover has a 36.6 kV guarded phase to guarded phase rating.

The **POLE BRACKET AND INSULATOR BASE COVER** guards against accidental contact with a pole, bracket or insulator base during routine maintenance. It is made from an orange UV resistant Type I polyethylene plastic. The Grade 2 hotstick eye allows this cover to be applied and removed with a hotstick or with rubber gloves. It covers metal or fiberglass brackets 8-12" long and pole mounting plates. This cover also interlocks with a pole insulator. This cover has a voltage rating of 26.4 kV*.

The **UNDERGROUND DISTRIBUTION ELBOW COVER** covers primary elbows and spade terminals during routine maintenance. It covers up to the face plate and cable connection. This cover is made from orange Type I polyethylene plastic. The hotstick eye allows this cover to be applied and removed with a hotstick. This cover self locks for a secure fit in confined areas. The bead can be trimmed in the field to meet clearance requirements. This cover has a voltage rating of 26.4 kV*.

*guarded Ø to guarded Ø .

CAT. NO.	DESCRIPTION	ASTM VOLTAGE CLASS	WEIGHT EA. lbs. (kgs)
816	Hot Cover 8" x 16" (203 x 406)	4	2.5 (1.1)
4314	Underground Distribution Elbow Cover 15" x 14.25" (381 x 362)	3	2.0 (.9)
4333	Pole Bracket & Insulator Base Cover 20" x 25" (508 x 635)	3	2.5 (1.1)

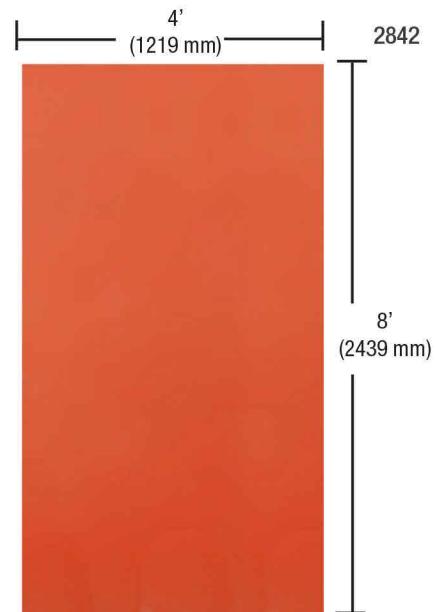
ALL GUARDS ARE TESTED TO ASTM F712

BAGS FOR LINE GUARDS AND POLE GUARDS come in two different sizes and can hold two nested line guards.

All of these bags are made from soil-resistant, vinyl-coated nylon and are equipped with a drawstring and mail bag lock.

The **APPLICATOR EYE KIT** is used to apply a new or extra shotgun eye where needed. If a Bus or "T" guard needs to be shortened or inverted, this kit allows modifications to be made. Clear PVC pipe cement may be used to secure the eye. Directions are included.

The **INSULATING BARRIER SHEET** can be used to create barriers in the field. This sheet is made from Type I ABS plastic and can be worked with ordinary hand tools, saws, tin snips and drills. It can also be hot formed using a heat gun. For example, this sheet can be bent at right angles over a table top to produce flanges for joining with other parts. Pipe adhesive can be used to join to other parts. The rated puncture is 50kV. This sheet is not intended for permanent or semipermanent barrier or insulating applications. It should be used for accidental brush applications. The 2842 barrier material meets the requirements of ASTM F712, 9.1.1 Type 1 Guards. The final application and classification of the barrier/cover is the responsibility of the user.



CAT. NO.	DIMENSIONS ft. (m) in. (mm)	WEIGHT EA. lbs. (kgs)
BAGS - LINE GUARDS		
1841	2 - 6' (1.8) line guards or 2 - 9" x 6' (229 x 1.8) Line Guards	4.5 (2.0)
1933	2 - 4.5' (1.4) line guards or 2 - 9" x 4' (229 x 1.22) Line Guards	3.5 (1.6)

BAGS - POLE GUARDS		
1871	2 - 12" x 6' (305 x 1.8) Pole Guards	5.2 (2.4)

EYE KIT		
1378	1 eye per kit	.25 (.11)

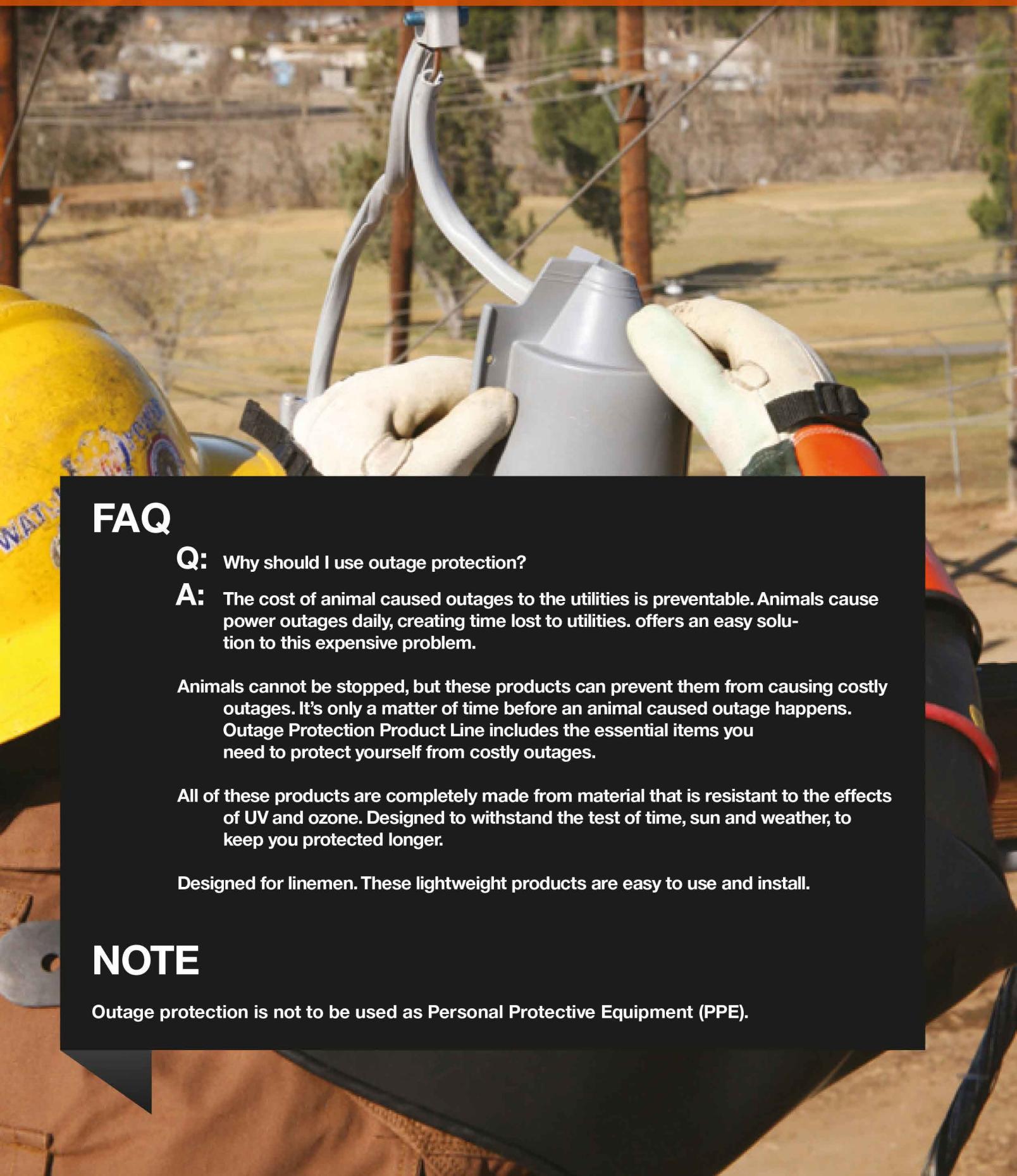
BARRIER SHEET		
2842	4' x 8' x .125" (1.2m x 2.4m x 3.2)	36 (16.4)



OUTAGE PROTECTION



OUTAGE PROTECTION



FAQ

Q: Why should I use outage protection?

A: The cost of animal caused outages to the utilities is preventable. Animals cause power outages daily, creating time lost to utilities. offers an easy solution to this expensive problem.

Animals cannot be stopped, but these products can prevent them from causing costly outages. It's only a matter of time before an animal caused outage happens. Outage Protection Product Line includes the essential items you need to protect yourself from costly outages.

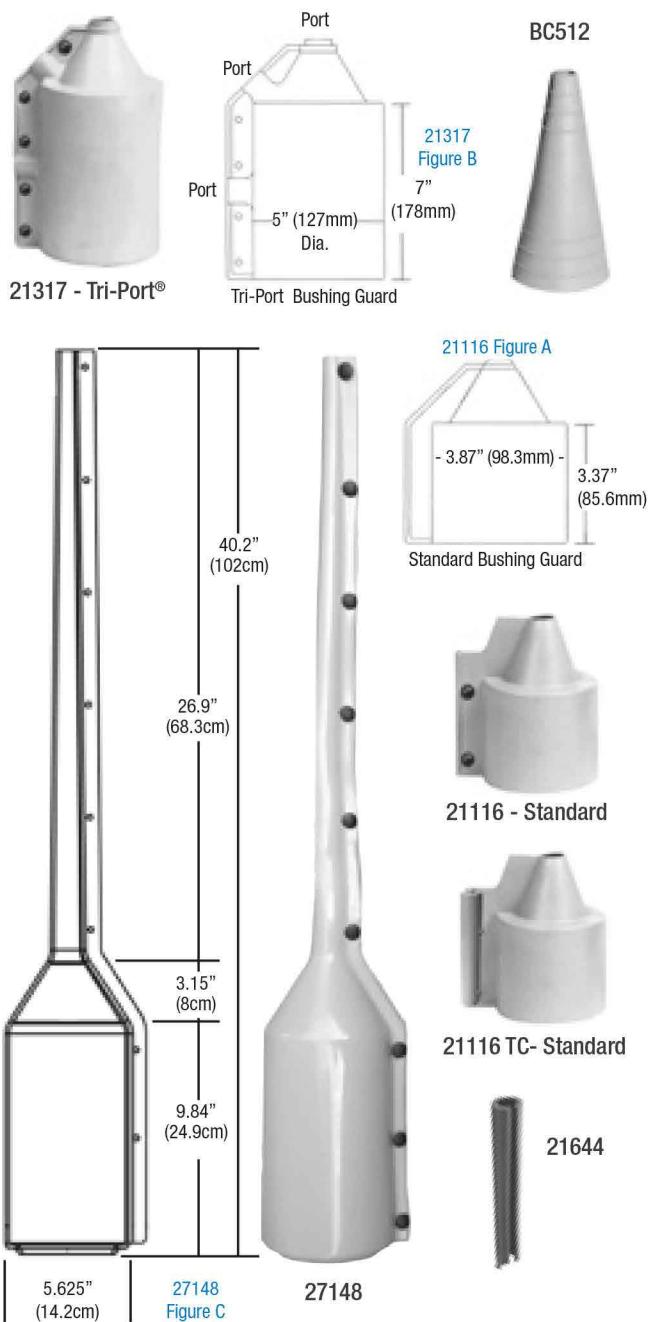
All of these products are completely made from material that is resistant to the effects of UV and ozone. Designed to withstand the test of time, sun and weather, to keep you protected longer.

Designed for linemen. These lightweight products are easy to use and install.

NOTE

Outage protection is not to be used as Personal Protective Equipment (PPE).

SILICONE BUSHING COVERS



Standard **BUSHING COVERS** and **Salisbury TRI-PORT® BUSHING COVERS**

are made from Ozone and UV resistant silicone rubber which maximizes their outdoor durability and tracking resistance. These covers have been **ACCEPTED BY RURAL UTILITIES SERVICE (RUS)**.

Bushing Covers protect against wildlife contacts between energized equipment and ground by insulating exposed energized bushing parts.

STANDARD and TRI-PORT® BUSHING COVERS interlock with the top weathershed of the bushing and are securely fastened by inserting lock buttons (provided). The **21116TC, STANDARD BUSHING COVER**, includes the **21644 TUBE CLOSURE**. The 21644 Tube Closure provides an easier and quicker way to securely close the standard bushing cover.

Bushing Covers can be installed without disconnecting equipment using rubber insulating gloves. Covering a small area of the lead wire, the opening can be trimmed to accommodate larger wires or 5/8" and 3/4" Stinger Covers.

CONE BUSHING COVERS For complete 360 degree coverage, the BC512 is the right choice. These covers come complete with upper and lower trim rings for a custom fit size and internal ribs for added air flow and water drainage. Made from Ozone and UV resistant silicone rubber, the BC512 permanently protects bushings from all sources of potential outages. Installation requires de-energizing equipment.

COMPLETE BUSHING-STINGER COVER This product is made from UV resistant PVC plastic to maximize the outdoor durability. The Complete Bushing/Stinger Cover interlocks with the top weather shed of the bushing and securely fastens by inserting lock buttons (provided). The Complete Bushing/Stinger Cover can be installed without disconnecting equipment using rubber insulating gloves. This product offers an integrated stinger cover which will cover the lead wire for an easy solution.

CAT. NO.	DESCRIPTION	DIMENSIONS in. (mm)	QUANTITY	PHASE TO GROUND FLASHOVER TEST VOLTAGE	WEIGHT EA. lbs. (kgs)
BUSHING COVERS					
21116	Cover Only	See figure A	24 pcs.	16 kV	16 (7.3)
21116TC	Cover Only w/ 21644	See figure A	24 pcs.	16 kV	16 (7.3)
21644	Tube Closure	-	-	-	-
21183	Cover Kit w/Stinger Cover	.375 x 18 (9.5 x 457)	24 pcs.	n/a	20 (9)
BC512	Cone Bushing Cover	12H x 5 W (305 H x 127 W)	1	n/a	1.5 (.7)
TRI-PORT® BUSHING COVERS					
21317	Cover Only	See figure B	24 pcs.	16 kV	28 (12.7)
24140	Cover Kit w/ Stinger Cover	3/8 x 18 (9.5 x 457)	24 pcs.	n/a	35 (16)
COMPLETE BUSHING-STINGER COVER					
27148	Bushing Cover & Stinger Cover Unit	See figure C	20 pcs.	48 (21.9)	-

STINGER COVERS & INSTANT INSULATION

STINGER COVERS protect against phase to phase and phase to ground wildlife contacts. These covers have been **ACCEPTED BY RURAL UTILITIES SERVICE (RUS)**.

The stinger cover can be installed without disconnecting the lead wire from the bushing. Available in three diameters, it is easily cut in the field to the needed length.

Stinger covers are track resistant and made from Ozone and UV resistant elastomer in a grey color. The covers are proven to provide years of reliable service either independently or when used with bushing covers.

INSTANT INSULATION may be installed as a permanent cover to protect against outages caused by weather, trees and animals. Instant Insulation resists ozone and ultraviolet deterioration while remaining flexible even at sub-zero conditions.

Instant Insulation is made of orange or grey SALCOR® elastomer. Instant Insulation is sold in three diameters, each 12 feet in length. Each include six nylon UV resistant bar-lock cable ties to secure it to the conductor.

Instant Insulation can be installed using the **2494 APPLICATOR**. To install, insert one end of the Instant Insulation into the applicator prongs, then roll and coil the insulation as shown. Secure the coil end with tape, cable ties, or rubber bands. To install, release the secured end and the Instant Insulation will unroll and enclose the conductor.

CAT. NO.	I.D. in. (mm)	DIMENSIONS ft. (m)	QUANTITY	PHASE TO GROUND FLASHOVER TEST	WEIGHT VOLTAGE KV lbs. (kgs)
EPDM STINGER COVERS					
38-2SC	3/8 (9.5)	2 (.61)	25 pcs.	10.5	9.5 (4.3)
38-50SC	3/8 (9.5)	50 (15.3)	1 coil	10.5	9.5 (4.3)
38-12SC	3/8 (9.5)	12 (3.7)	4 pcs.	10.5	9.5 (4.3)
38-18SC	3/8 (9.5)	18" (457mm)	50 pcs.	10.5	11 (5)
38-100SC	3/8 (9.5)	100 (30.5)	1 coil	10.5	16 (7.25)
58-12SC	5/8 (15.9)	12 (3.7) coil	4 pcs.	12.5	22 (10)
58-50SC	5/8 (15.9)	50 (15.3) coil	1 pc.	12.5	21 (9.5)
58-100SC	5/8 (15.9)	100 (30.5) coil	1 pc.	12.5	45(20.5)
34-12SC	3/4 (25.4)	12 (3.7) coil	4 pcs.	14.9	22 (10)
34-25SC	3/4 (25.4)	25 (7.6) coil	2 pcs.	14.9	22 (10)

INSTANT INSULATION 12' / 3.6M LONG

CAT NO.	DIMENSIONS in. mm	COLOR	WEIGHT EA. lbs. kgs
1127	.75 I.D. 19 I.D.	Grey	7 (3.2)
1128	.75 I.D. 19 I.D.	Orange	7 (3.2)
1129	1.00 I.D. 25 I.D.	Grey	8 (3.6)
1130	1.00 I.D. 25 I.D.	Orange	8 (3.6)
1131	1.25 I.D. 32 I.D.	Grey	10 (4.5)
1132	1.25 I.D. 32 I.D.	Orange	10 (4.5)
2494	Universal Hotstick Applicator		1 (.5)



38-50SC

Stinger Cover Cross-section

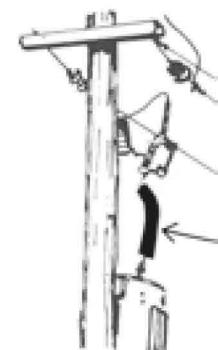
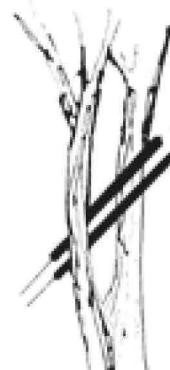
NOTE: INSTANT INSULATION IS NOT CURRENTLY RATED PER ASTM; HOWEVER, THE MATERIAL IS INSULATING WITH A DIELECTRIC STRENGTH OF 486 V/MIL. ADDITIONALLY, THE EFFECTIVE THICKNESS IS .15" TO .2" WHEN INSTALLED.



1127



2494



For sizes and lengths other than those listed above, contact your local representative.

HARD HATS & FACE SHIELDS





SA49R01



SA49R03



SA79R01



SA79R02



SA79R03

FULL BRIM HDPE HARD HAT provides protection from the sun's harmful UV rays, rain, and falling debris. Ideal for utilities and other demanding environments. Accessory slots make this the first full brim hard hat to accept face and hearing protection accessories for the available protection. Choice of high quality suspension designed for comfort, with forehead comfort band and crown pad, 2-level height adjustment and with ratchet size adjustment.

SA79R01 & SA79R03 offer a versatile and dependable design, with grooved HDPE outer shell, rain trough and accessory slots. Features 4-point, Nylon web or plastic suspension, with ratchet size adjustment. All suspension choices feature 3-level height adjustment.

4-POINT RATCHETING REPLACEMENT NYLON SUSPENSION



*IMPORTANT - Please add the color code to the end of hard hat #
(EX:SA79R01 - White ANSI Type I, dielectric front brim hard hat w/quick-fit 4-Point suspension)

Color Codes	Stock Colors
01	White
02	Yellow
03	Orange

CAT. NO.	DESCRIPTION	SHELL	WEIGHT EA. lbs. (kgs)
SA49R01	Full Brim White 6-Point Nylon Suspension	HDPE	5.4 oz. (kg)
SA49R02	Full Brim Yellow 6-Point Nylon Suspension	HDPE	15.4 oz. (kg)
SA49R03	Full Brim Orange 6-Point Nylon Suspension	HDPE	15.4 oz. (kg)
SA79R01	Peak White 4-Point Nylon Suspension	HDPE	11.6 oz. (kg)
SA79R02	Peak Yellow 4-Point Nylon Suspension	HDPE	11.6 oz. (kg)
SA79R03	Peak Orange 4-Point Nylon Suspension	HDPE	11.6 oz. (kg)

PROTECTIVE FACE SHIELDS

INTRODUCING THE NEXT GENERATION IN ARC FLASH

HEAD PROTECTION.

revolutionary 40 cal/cm² Lift Front Hood (LFH40) combines our award winning weight balancing face shield and a transparent chin guard with the standard hood. Lift Front Hood's wider face shield and transparent chin guard more than doubles the vertical peripheral vision of a standard hood.

by Honeywell's NEW revolutionary **AS2000HAT** is a Weight Balancing Arc Flash Protection Face Shield. The shield stows in a balanced, compact position and is centered over the top of the hard hat when not in use. The AS2000HAT has an ATPV rating of 20 cal/cm² and utilizes nanotechnology to provide a clearer, more transparent window for improved visibility.

The **AS1200HAT** has an ATPV rating of 12 cal/cm² and utilizes nanotechnology to provide a more transparent window for improved visibility. The shield/window is designed to be easily replaced without tools.

AS1200 SERIES

7.5" x 20" Viewing area
Extra light tint
.06" Thick
Absorbs >99.9% of harmful UV radiation
Resistant to fogging
Meets current ANSI Z87.1 and is CSA standard compliant
Tested to ASTM F2178 specifications



LFH40PLT
w/ FLKIT

LFH40 w/ FLKIT



AS2000

AS2000HAT-CLR



AS12000HAT

AS1200-CLR



AS2000FB

AS1200FB with
SA49R01 & FLKIT

CAT. NO.	DESCRIPTION
LFH40PLT	NEW 40 cal, Premium light Weight, 2 layers, 5 oz/yd ² over 6.32 oz/yd ² arc flash protection hood w/SA79R03 hard hat
LFH40	NEW 40 cal, 2 layers, 9oz/yd ² over 9oz/yd ² arc flash protection hood w/SA79R03 hard hat
AS2000HAT	NEW 20 cal/cm ² , arc flash protection face shield unit w/SA79R03 hard hat
AS2000HAT-CLR	NEW AS2000HAT w/ transparent chin guard
AS2000	NEW 20 cal/cm ² , arc flash protection face shield unit
AS2000FS	NEW Replacement face shield/window
AS2000FB	20 cal/cm ² , Universal fit, arc flash protection face shield unit for full brim hard hats
AS1200HAT	12 cal/cm ² weight balancing arc flash protection face shield unit w/SA79R03 hard hat
AS1200HAT-CLR	12 cal/cm ² , AS1200HAT w/ transparent chin guard
AS1200	12 cal/cm ² , weight balancing arc flash protection face shield unit
AS1200FB	12 cal/cm ² , Universal fit, arc flash protection face shield unit for full brim hard hats
AS1200U	12 cal/cm ² , Universal fit, arc flash protection face shield unit for front brim hard hats
AS12CLR-FB	Transparent chin guard for AS1200 series front brim.
AS1200FS-FB	12 cal/cm ² , Replacement face shield/window for AS1200FB full brim
AS1200FS	12 cal/cm ² replacement face shield/window for AS1200 series
FLKIT	Attachable task light (1) & FLCLIP



NOTE: IN ORDER TO ACHIEVE 360 DEGREE 20 CAL/CM² PROTECTION, A 20 CAL/CM² BALACLAVA MUST BE WORN.
NFPA 70E: AN ARC RATED HOOD SHALL BE USED WHEN THE ANTICIPATED INCIDENT ENERGY EXPOSURE EXCEEDS 12 CAL/CM².

PROTECTIVE FOOTWEAR



PROTECTIVE FOOTWEAR

FAQ

Q: What is the difference between the yellow/black ASTM F2413 EH Footwear and the red/black ASTM Dielectric Footwear?

A: The yellow/black ASTM F2413 EH Footwear line are manufactured per the requirements of ASTM F2413 EH. Which means the outsole of these overshoes and boots have been lot tested to 20,000 volts to the electrical hazard requirements of ASTM F2413. red/black ASTM dielectric footwear conforms with ASTM F1117 and are all 100% tested to the electrical hazard requirements of ASTM F1116 at 20,000 volts.

Q: What are the benefits of ASTM Dielectric Footwear?

A: ASTM Dielectric Footwear protects ground workers from step and touch potential in the whole work zone, not just one confined work area, like a grounding mat.

ASTM Dielectric Footwear can help reduce the amount of electrical workers in a work area since they are not confined.

ASTM Dielectric Footwear allows personnel to safely mount and dismount equipment in the work zone.

ASTM Dielectric Footwear allows personnel to safely retrieve material from truck bins.



ASTM DIELECTRIC FOOTWEAR

DEEP HEEL OVERSHOES - 100% TESTED TO 20KV



51509



51508



BOB SOLE



51512



51511



21406



21405

ASTM DIELECTRIC FOOTWEAR provides extra safety when climbing ladders and poles where the deep heel cavity can lock onto the rungs. These boots and overshoes are 100% waterproof and made from premium grade ozone resistant natural rubber. The construction is hand-layered in full-cut patterns to fit over work boots. The fabric lining makes them easy to get on and off. The dielectric footwear sole has a durable construction with a non-skid bar tread outsole.

All of ASTM Dielectric Footwear conforms with ASTM F1117 and all are 100% TESTED to the electrical hazard requirements of ASTM F1116 at 20,000 volts.

ASTM Dielectric Footwear comes in four styles all with pole-climbing reinforcement patch. The **OVERSHOE** is available without buckles or with two buckles. The **OVERBOOT** with adjustable side strap features a 14" height or a 17" height. The attached buckle and hardware is nonmetallic.

IMPROVED OVERSHOES - now offers improved 51511 non-buckle overshoe and 51512 2-Buckle overshoe. The improved overshoes includes a sole with aggressive tread for better traction. The deep heel and improved arch are specially designed for climbing ladders comfortably. The wider opening allows for easier on/off.

CAT. NO.	DESCRIPTION	SIZES in. (mm)	WEIGHT PR. lbs. (kgs)
21405	17", 1 Buckle Overboot	Whole Sizes 7 - 16	5.8 (2.6)
21406	14" 1 Buckle Overboot	Whole Sizes 7 - 17	5.0 (2.3)
51508	Non-Buckle Overshoe	Whole Sizes 7 - 17	3.3 (1.5)
51509	2 Buckle Overshoe	Whole Sizes 7 - 17	4.4 (2)

BOB SOLE OVERSHOES

51511	Bob Sole - Non-Buckle Overshoe	Whole Sizes 7 - 16	3.3 (1.5)
51512	Bob Sole - 2 Buckle Overshoe	Whole Sizes 7 - 16	4.4 (2)

NOTE: When ordering, add size as suffix to part number. Be sure to add a space between the part number and size. Example: 51511 7

ASTM F2413 EH FOOTWEAR

OVERSHOE & DEEP HEEL OVERSHOES, OUTSOLE TESTED TO 14 KV AND 20 KV

ASTM F2413 EH DEEP HEEL OVERSHOES provide extra safety when climbing ladders and poles where the deep heel cavity can lock onto the rungs. These boots and overshoes are made from an ozone resistant yellow rubber that's 100% waterproof. The construction is hand-layered in full-cut patterns to fit over work boots. The fabric lining makes them easy get on and off. The sole is an anti-skid bar tread. **The outsole of these DEEP HEEL OVERSHOES and BOOTS have been lot TESTED TO 20,000 VOLTS to the electrical hazard requirements of ASTM F2413.**

ASTM F2413 EH Deep Heel Overshoes come in three styles all with a pole-climbing reinforcement patch. The **STORM RUBBER OVERSHOE** is available without buckles or with two buckles. The **FULL-CUT OVERSHOE** with adjustable side strap features a 17" height.

ASTM F2413 EH OVERSHOES are made from an ozone resistant yellow rubber. The construction is hand-layered in full-cut patterns to easily fit over work boots. These overshoes are 100% waterproof. The lining is fabric so they easily slip on and off. The sole is an anti-skid bar tread. **The outsole of these OVERSHOES and BOOTS have been lot TESTED TO 20,000 VOLTS to the electrical hazard requirements of ASTM F2413.**

ASTM F2413 EH Overshoes are available in two styles: a **STORM RUBBER OVERSHOE** and an **11" 4-BUCKLE ARCTIC** both with a pole-climbing reinforcement patch.

ASTM F2413 EH Overshoes come in two styles. The **DEEP HEEL LINEMAN'S STORM RUBBER** has a diamond V-grip outsole and pole-climbing reinforcement patch. The **11" 4-BUCKLE** has an anti-skid bar tread sole and heel. **The outsole of these overshoes and boots have been lot TESTED TO 14,000 VOLTS to the electrical hazard requirements of ASTM F2413.**



CAT. NO.	DESCRIPTION	SIZES in. (mm)	WEIGHT PR. lbs. (kgs)
ASTM F2413 EH DEEP HEEL OVERSHOES TESTED TO 20KV			
21402	Deep Heel 17" (432) Overboot, Anti-Skid Bar Tread Outsole	Whole Sizes 7-17	5.8 (2.6)
51530	Deep Heel 2-Buckle Overshoe, Anti-Skid Bar Tread Outsole	Whole Sizes 6-17	4.4 (2)
51581	Deep Heel Storm Rubber Overshoe, Anti-Skid Bar Tread Outsole	Whole & Half Sizes 7-12 Whole Sizes 6, 13-17	3.3 (1.5)
ASTM F2413 EH OVERSHOES TESTED TO 20KV			
31924	11" (279) 4-Buckle Arctic Overboot, Anti-Skid Bar Tread Outsole	Whole Sizes 6-17	4.6 (2.1)
51824	Storm Rubber Overshoe, Anti-Skid Bar Tread Outsole	Whole & Half Sizes 7-12 Whole Sizes 13-16	3.25 (1.5)
ASTM F2413 EH OVERSHOES TESTED TO 14KV			
31910	11" (279) 4-Buckle Overboot, V-Grip Outsole	Whole Sizes 7-17	3.8 (1.7)
51510	Deep Heel Storm Rubber Overshoe, Anti-Skid Bar Tread Outsole	Whole & Half Sizes 6-12	3.1 (1.4)

Anti-Skid Bar Tread Outsole



Diamond V-grip Outsole

INSULATED JUMPERS



INSULATED JUMPERS



FAQ

Q: What are the benefits of the Sure-lok® Jumper clamp?

A: The Sure-lok® Jumper clamp is an improvement over other jumper clamps available. The Sure-lok® features a ratchet-type locking mechanism which guarantees the clamp not to loosen once it is installed on a line.

Loose jumper clamps not only jeopardize your safety but can also cause fires and power outages. Even when torqued using wrenches or pliers, traditional clamps will eventually loosen from line vibrations. This clamp tightens with a ratchet action using one hand, with no extra tools, for a secure and positive connection. When you want to loosen or remove the jumper clamp, simply pull and turn the locking knob and it will loosen like a traditional clamp.

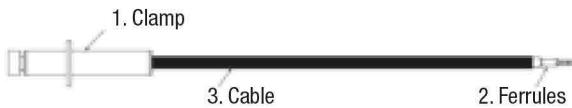
ADVANTAGE

Insulated bypass jumper sets consist of three basic components: one pair of clamps, one pair of ferrules and a length of insulated cable. On the following pages, the most popular jumper sets are listed with the types of jumper clamps in which they are associated. When a custom jumper is required, follow this procedure to ensure that a complete and functional jumper is specified.

If you quickly need assembled jumper sets, please contact your local Representative for more information.

Let professionally assemble your sets for you.

All Insulating Jumpers meet ASTM F2321 standards.

**INSULATED JUMPER CHECKLIST**

1. Specify the style of insulated clamps. All of the clamps are hand installed wearing rubber insulating gloves, accept either shrouded or unshrouded ferrules and accept insulated cable up to 4/0, 35 kV. Insulated jumper clamps are sold in pairs.
2. Specify the size and length of insulated cable. Offers 15 kV cable from #2 to 4/0. 25 kV and 35 kV cable are both available in sizes 1/0 and 2/0. Be sure to specify the length of the cable chosen.
3. Specify the size and style of ferrules required. The size of the ferrule will be determined by the size of the cable. Specify the appropriate ferrule catalog number for either shrouded or unshrouded ferrules. Both types are sold in pairs.
4. Specify if the jumpers are to be factory assembled. A complete jumper set with crimped ferrules and installed jumper clamps will be supplied. Has state-of-the-art, computer-controlled crimping available.
5. Specify if there are any special requirements. This could include heat shrink tubing, special assembly instructions, markings, packaging, etc.



THE SURE-LOK® JUMPER CLAMP is a revolutionary improvement over any other jumper clamp in the world. Featuring a ratchet type locking mechanism.

Loose jumper clamps not only jeopardize your safety but can also cause fires and power outages. This clamp tightens with a ratchet action using one hand, with no extra tools for a secure, positive connection. It can't come loose until you want it to. Pull and turn the locking knob and it loosens like any traditional clamp.

Available in our exclusive SALCOR® material and the industry's most durable single piece clear plastic jumper clamps.

SALCOR® JUMPER CLAMPS are available in two main line sizes with a maximum use voltage of 35 kV.

The **SALCOR® JUMPER CLAMP** not only provides a superior grip, but also resists ozone cutting and tracking. Being molded of rubber, these handles are inherently impact resistant and extremely durable. The body and jaw are made from a copper base alloy. The lower ring contact is made of self lubricating bronze. Assemble jumpers with insulated jumper cable and 5/8"- 11 NC threaded ferrules. Assembled kits are sold with a 10 ft. (3 m) cable and unshrouded ferrules.

Custom built assemblies are available. Contact your local Representative for more information.



CAT. NO.	DESCRIPTION	MAIN LINE RANGE	MAX AMPS CONTINUOUS	RATING	OAL LENGTH in. (mm)	WEIGHT EA. lbs. (kgs)
2261	SALCOR® Sure-lok® Jumper Clamp	477 MCM (.9"-.162")	400	36 kV Ø-Ø, 21 kV Ø-GRD	11.5 (292 mm)	10 (4.5)
2271	SALCOR® Sure-lok® Jumper Clamp	954 MCM (1.25"-.162")	400	36 kV Ø-Ø, 21 kV Ø-GRD	11.5 (292 mm)	11 (5)
1786	Clear Plastic Sure-lok® Jumper Clamp	477 MCM (.9"-.162")	400	36 kV Ø-Ø, 21 kV Ø-GRD	11.5 (292 mm)	8 (3.6)
2116	Clear Plastic Sure-lok® Jumper Clamp	954 MCM (1.25"-.162")	400	36 kV Ø-Ø, 21 kV Ø-GRD	11.5 (292 mm)	10 (4.5)
2260	SALCOR® Jumper Clamp	477 MCM (.9"-.162")	400	36 kV Ø-Ø, 21 kV Ø-GRD	11.5 (292 mm)	10 (4.5)
2270	SALCOR® Jumper Clamp	954 MCM (1.25"-.162")	400	36 kV Ø-Ø, 21 kV Ø-GRD	11.5 (292 mm)	11 (5)

10 FT. / 3M ASSEMBLED JUMPER SETS WITH UNSHROUDED FERRULES

JUMPER CAT. NO.	CABLE SIZE	CABLE CAT. NO.	FERRULE CAT. NO.	MAX AMPS CONTINUOUS	WEIGHT EA. lbs. (kgs)
10FT./3M ASSEMBLED JUMPER SET WITH 2260 CLAMPS					
2264	#2-15 kV	2754	2022	200	10.9 (4.9)
2265	1/0-15 kV	2755	2023	250	13.5 (6.1)
2266	2/0-15 kV	2756	2024	300	14.8 (6.8)
10FT./3M ASSEMBLED JUMPER SET WITH 2270 CLAMPS					
2274	#2-15 kV	2754	2022	200	11.9 (5.4)
2275	1/0-15 kV	2755	2023	250	14.6 (6.8)
2276	2/0-15 kV	2756	2024	300	15.9 (7.2)



Clear Jumper with Cable



2115



1610



1785

SUPERIOR STRESS CRACKING-RESISTANT

CLEAR JUMPER CLAMPS are available in two main line sizes with a maximum use voltage of 35 kV. Assemble these clamps with insulated jumper cable and 5/8" - 11 NC threaded ferrules.

CLEAR PLASTIC JUMPER CLAMPS are compact, lightweight, and virtually unbreakable. The transparency allows easy inspection of the ferrule and cable inside of the handle. The body and jaw are made from a copper base alloy. The lower floating ring contact is bronze. These handles should be cleaned only with a mild detergent to maintain the transparency of the handle. Assembled kits are sold with a 10 ft. (3 m) cable and unshrouded ferrules.

FRP JUMPER CLAMPS are designed for maximum loads, voltages and cables. During a temperature rise test at 25% overload, these clamps heated 35% less than 4/0 cu. cable. Blunted points on the handle provide optimum grip, resist impact and will not soften with overloads. The body and jaw are made from a copper based alloy. The lower jaw is made of self lubricating bronze. The assembled jumpers are sold with a 10 ft. (3 m) or 12 ft. (3.7 m) cable and unshrouded ferrules.

Custom built assemblies are available. Contact your local Representative for more information.

CAT. NO.	DESCRIPTION	MAIN LINE RANGE	MAX AMPS CONTINUOUS	RATING	OAL LENGTH in. (mm)	WEIGHT EA. lbs. (kgs)
1610	FRP Jumper Clamp	954 MCM (1.25"-.162")	400	36 kV Ø-Ø, 21 kV Ø-GRD	11 (279)	14 (6.4)
1785	Clear Plastic Jumper Clamp	477 MCM (.9"-.162")	400	36 kV Ø-Ø, 21 kV Ø-GRD	11.5 (292)	8 (3.6)
2115	Clear Plastic Jumper Clamp	954 MCM (1.25"-.162")	400	36 kV Ø-Ø, 21 kV Ø-GRD	11.5 (292)	10 (4.5)

10 FT. / 3M ASSEMBLED JUMPER SETS WITH UNSHROUDED FERRULES

JUMPER CAT. NO.	CABLE SIZE	CABLE CAT. NO.	FERRULE CAT. NO.	MAX AMPS CONTINUOUS	WEIGHT EA. lbs. (kgs)
10FT./3M ASSEMBLED JUMPER SET WITH 1785 CLAMPS					
2067	#2-15 kV	2754	2022	200	9.9 (4.5)
2178	2/0-15 kV	2756	2024	300	13.9 (6.3)
10FT./3M ASSEMBLED JUMPER SET WITH 2115 CLAMPS					
2074R1	#2-15 kV	2754	2022	200	10.9 (4.9)
2164	2/0-15 kV	2756	2024	300	14.8 (6.8)
2174R1	1/0-15 kV	2755	2023	250	16.8 (7.6)

ASSEMBLED JUMPER SETS WITH UNSHROUDED FERRULES

JUMPER CAT. NO.	CABLE LENGTH	CABLE SIZE	CABLE CAT. NO.	FERRULE CAT. NO.	MAX AMPS CONTINUOUS	WEIGHT EA. lbs. (kgs)
10FT./3M ASSEMBLED JUMPER SET WITH 1610 CLAMPS						
2772	10'	2/0-15kV	2756	2024	300	5.8 (2.9)
2773	10'	4/0-15kV	2757	2025	400	20.3 (9.2)
2450	10'	1/0-15kV	2755	2023	250	15 (6.8)
2066	12'	1/0-35kV	2059	2023	250	20.3 (9.2)
20876	12'	2/0-35kV	4370	2024	300	21.5 (9.8)

FLEXIBLE INSULATED JUMPER CABLES, STICK INSTALLED FLEXIBLE JUMPERS & FERRULES

FLEXIBLE INSULATED JUMPER CABLES are lightweight and resistant to oil, heat, moisture, ozone and abrasion. The cable is embossed every three feet with the conductor size and kV rating.

All jumper cables use fine stranded conductor and a new EPR low temperature unipass orange CV cured jacket. The fine stranded copper conductor is alloy coated and assembled in a unidirectional rope lay for extra flexibility. The conductor has a semiconducting shield surrounding it to relieve voltage stress and improve dielectric strength and service life.

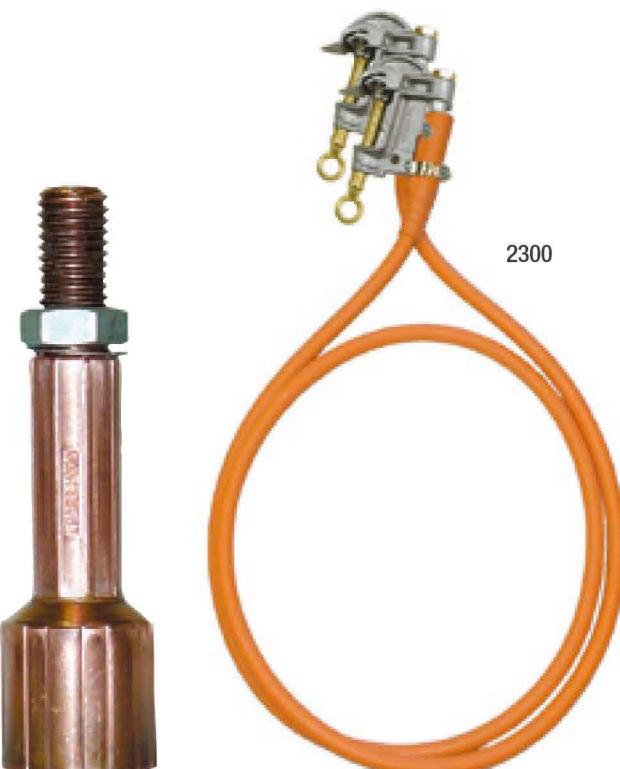
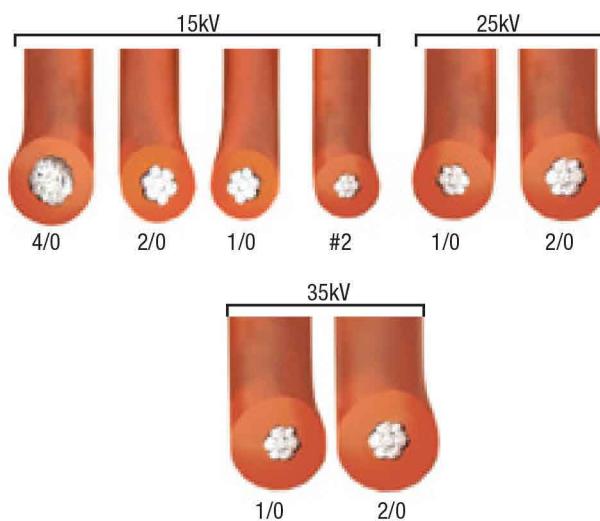
Cable meets requirements of ASTM F2321.

STICK INSTALLED FLEXIBLE JUMPERS can be manufactured for hotstick operations using heavy-duty eye clamps. Clamps are rated for continuous current and fit all standard shotgun type hotsticks. For ease of application, a Hanger Stud is recommended. Shrouded ferrules are not recommended for use with eye type clamps.

Custom built assemblies are available. Contact your local Representative for more information.

FERRULES are manufactured in two different styles: unshrouded and shrouded. Shrouded ferrules are compressed on both the conductor and the insulating jacket of the high voltage EPR cable to reduce bending stress. Shrouded ferrules are designed to be used on glove-installed high voltage jumpers. Unshrouded ferrules are crimped to the conductor strands only and can be used on either stick- or glove-installed jumpers.

FERRULES are manufactured of 99.5% pure copper with industry standard 5/8"-11 NC threads. Ferrules are topped with a brass hex jam nut and toothed stainless steel lockwasher.



unshrouded

shrouded

FLEXIBLE INSULATED JUMPER CABLES, STICK INSTALLED FLEXIBLE JUMPERS & FERRULES

FLEXIBLE INSULATED JUMPER CABLES							
CAT. NO.	SIZE & STR. AWG	KV RATING Ø TO Ø	NOMINAL Ø TO GRD	STR. DIA. in. (mm)	O.A. DIA. in. (mm)	MAX AMPS CONTINUOUS	WEIGHT PER 1000 FT. lbs. kgs
2754	#2-259W	15	10	.320 (8.1)	.75 (19)	200	440 199
2755	1/0-413W	15	10	.403 (10.2)	.83 (21)	250	600 272
2756	2/0-427W	15	10	.456 (11.5)	.90 (23)	300	710 322
2757	4/0-437W	15	10	.592 (15.0)	1.01 (25.6)	400	1050 476
21300	1/0-413W	25	15	.403 (10.2)	1.06 (27)	250	650 295
21060	2/0-427W	25	15	.456 (11.5)	1.10 (28)	300	750 341
2059	1/0-413W	35	20	.403 (10.2)	1.22 (31)	250	950 431
4370	2/0-427W	35	20	.48 (12.1)	1.31 (33.1)	300	1060 482

STICK INSTALLED FLEXIBLE JUMPERS					
CAT. NO.	MAIN LINE RANGE	MAX AMPS CONTINUOUS	COMPONENTS	RATING	WEIGHT EA. lbs. (kgs)
2300	1431 ACSR to #6 Sol., 1.5"- .16"	250	2#1895 Alum "C" Clamp 1#1928A Hanger Stud 1#2027 Alum Ferrule 10' #2755 1/0 15kV Cable	15 kV Ø-Ø	16 (7.3)
2308	1431 ACSR to #6 Sol., 1.5"- .16"	200	2#1895 Alum "C" Clamp 1#1928A Hanger Stud 1#2026 Alum Ferrule 12' #2754 #2 15kV Cable	15 kV Ø-Ø	10.8 (4.9)
2317	1431 ACSR to #6 Sol., 1.5"- .16"	250	2#2195 Alum "C" Clamp 1#1928A Hanger Stud 1#2027 Alum Ferrule 12' #2059 1/0 35kV Cable	35 kV Ø-Ø	16 (7.3)
2318	1431 ACSR to #6 Sol., 1.5"- .16"	300	2#2318 Alum "C" Clamp 1#1928A Hanger Stud 1#2620 Alum Ferrule 12' #2756 2/0 15kV Cable	15 kV Ø-Ø	15.6 (7.1)
2559	1033 ACSR to #6 Sol., 1.25"- .16"	250	2#1853 Alum Duckbill Clamp 1#1858A Hanger Stud 1#2027 Alum Ferrule 10' #2755 1/0 15kV Cable	15 kV Ø-Ø	16 (7.3)
2877	795 ACSR to #8 Sol., 1.12"- .12"	250	2#2532 Alum "C" Clamp 1#2537A Hanger Stud 1#2027 Alum Ferrule 10' #2755 1/0 15kV Cable	15 kV Ø-Ø	11 (5.0)
9976	795 ACSR to #8 Sol., 1.12"- .12"	250	2#9985 Brnz "C" Clamp 1#9983A Hanger Stud 1#2023 Cu Ferrule 10' #2755 1/0 15kV Cable	15 kV Ø-Ø	12 (5.4)
9977	795 ACSR to #8 Sol., 1.12"- .12"	250	2#2937 Brnz "C" Clamp 1#9983A Hanger Stud 1#2023 Cu Ferrule 10' #2059 1/0 35kV Cable	35 kV Ø-Ø	12.5 (5.6)

FERRULES					
CAT. NO.	CABLE SIZE	STRAND DIE CODES T&B	JACKET DIE CODES T&B	BURNDY DIE NUMBER	WEIGHT EA. PAIR lbs. (kgs)
SHROUDED					
2012	#2-15 kV ERP	66	106	-	1.2 (.5)
2013	1/0-15 kV ERP	66	106	-	1.2 (.5)
2014	2/0-15 kV ERP	66	106	-	1.1 (.5)
2015	4/0-15 kV ERP	66	106	-	0.9 (.4)
21353	1/0-25 kV	66	112	-	1.1 (.5)
21354	2/0-25 kV	66	112	-	1.1 (.5)
21356	2/0-35 kV	66	125	-	1.1 (.5)
UNSHROUDED - TIN PLATED					
2022	#2	50	-	U243	0.5 (.2)
2023	1/0	50	-	U243	0.4 (.2)
2024	2/0	60	-	U245	0.4 (.2)
2025	4/0	66	-	U247	0.6 (.3)

INSULATED JUMPER CLAMPS ACCESSORIES

STIRRUP CLAMPS are used to convert a hand installed jumper into a stick installed jumper. The stirrup is designed to accept all conventional jumper heads.

The **HOT JUMPER PARKING STAND** safely holds either glove or stick installed hot bypass jumpers. This insulated tool removes the risk of accidental contact with the uninstalled end of an energized jumper. Installs by hand using rubber insulating gloves or with a standard shotgun stick. The fiberglass jumper hanger bar will accommodate standard size mechanical jumper heads.

The **CONNECTOR LINK** connects two insulated jumpers to create a longer jumper length. After the two clamps are connected to the link, the assembly can be wrapped with a small rubber insulating blanket.



21132RG



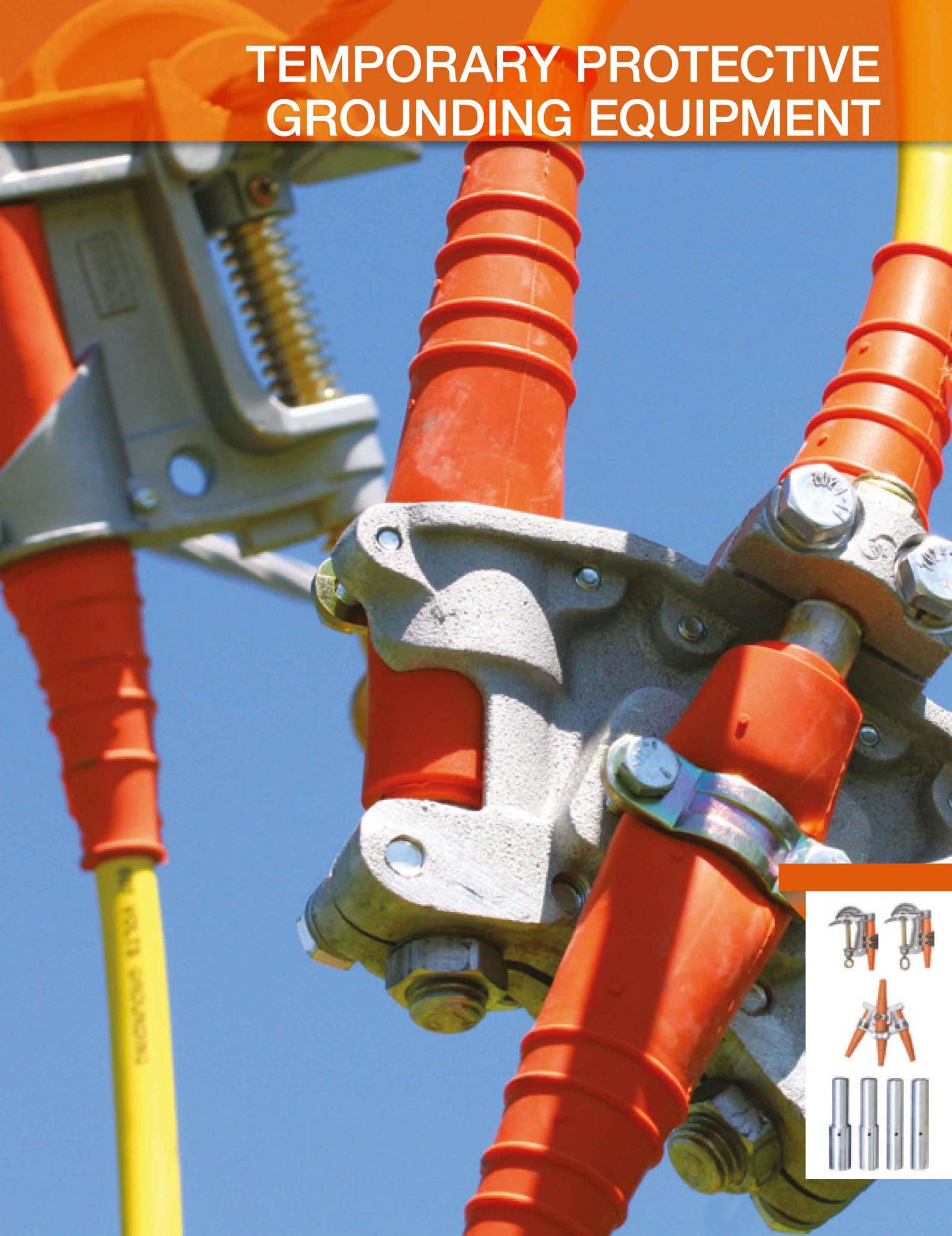
4245

INSULATED JUMPER CLAMPS ACCESSORIES

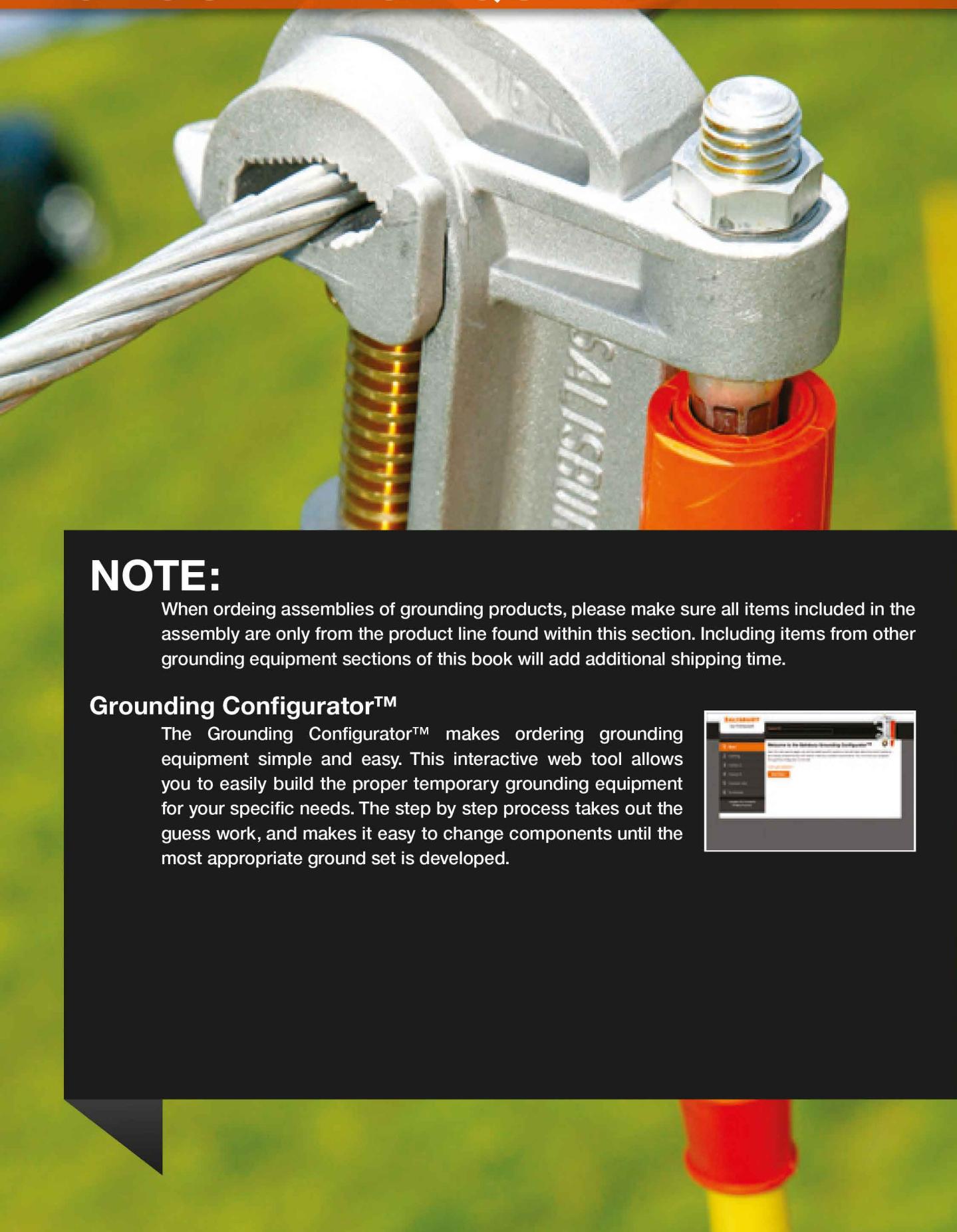
CAT. NO.	MAIN LINE RANGE	DESCRIPTION	MAX. AMPS CONTINUOUS	WEIGHT EA. lbs. (kgs)
2750	--	Connector Link	400	.3 (.1)
21132RG	1033 MCM ACSR to #6 Sol., 1.25"-.16" (32-4.1mm)	Hot Jumper Stirrup Clamp	400	3.0 (1.4)
4245	954 MCM ACSR to #6 Sol., 1.14"- .16" (29- 4.1 mm)	Parking Stand for Hot Jumpers	n / a	3.5 (1.6)



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.

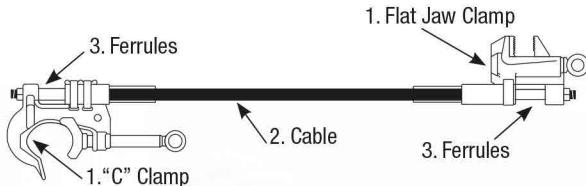
Grounding Configurator™

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.



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. 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.

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

DUCK BILL GROUNDING CLAMPS

.96", 1.1" AND 1.66" SIZES



21030



1853



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/ 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/o 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)
.83" BRONZE "C" CLAMP W/ CURVED LOWER JAW - "V" THREAD					
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)

1.12" ALUMINUM "C" CLAMP - ACME THREAD

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)
1.12" BRONZE "C" CLAMP - ACME THREAD					
9985	Eye, w/ strain relief sleeve, Smooth Jaw	5 / A	795 MCM 26" x 7" ACSR to #8	400 RMS Amps, 60 Hz	1.9 (.9)
2937	Eye, w/o strain relief sleeve, Smooth Jaw	5 / A	1.12" - .12"	400 RMS Amps, 60 Hz	1.8 (.8)
4280*	Mounted, w/ strain relief sleeve, Smooth Jaw	5 / A	(29 mm - 3 mm) Dia.	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*	Hanger Stud only				.4 (.2)
1.12" "T" / EYE "C" CLAMP - ACME THREAD					
4242	Bronze "T" w/ strain sleeve & "T", eye screw, Smooth Jaw	5 / A	795 MCM 26" x 7" ACSR to #6	400 RMS Amps, 60 Hz	1.9 (.9)
9993	Aluminum "T" w/ strain sleeve & "T", eye screw, Smooth Jaw	5 / A	1.12" - .16" (29 mm - 4 mm) Dia.	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)
1.25" BRONZE "C" CLAMP - ACME THREAD					
9984	Eye, w/ strain relief sleeve Smooth Jaw w/ Flat Lower Jaw	5 / A		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	1035.5 MCM ACSR to #6	400 RMS Amps, 60 Hz	2.2 (1.0)
21069	Eye, w/o strain relief sleeve Smooth Jaw w/ Flat Lower Jaw	5 / A	1.25" - .16" (32 mm - 4mm) Dia.	400 RMS Amps, 60 Hz	2.1 (.9)
4279	Eye, w/ strain relief sleeve Smooth 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*	Hanger Stud only				.4 (.2)

1.25" ALUMINUM "C" CLAMP - ACME THREAD

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)
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1.5" ALUMINUM "C" CLAMP, W/ FLAT LOWER JAW - ACME THREAD

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



CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
2" ALUMINUM "C" CLAMP W/ CURVED LOWER JAW - ACME THREAD					
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)

2.4" ALUMINUM "C" CLAMP W/ FLAT LOWER JAW - ACME THREAD

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)

2.4" BRONZE "C" CLAMP W/ FLAT LOWER JAW - ACME THREAD

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.



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.

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)
1.1" SMOOTH JAW ALUMINUM --SPRING LOADED - "V" THREAD					
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)
1.25" SMOOTH JAW ALUMINUM - ACME THREAD					
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)
2" SMOOTH JAW ALUMINUM - ACME THREAD					
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)
ALUMINUM FLAT JAW GROUNDING CLAMP - ACME THREAD					
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)
3.5" ALUMINUM "C" CLAMP FOR SUBSTATION BUSES - ACME THREAD					
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)

6.62" ADJUSTABLE ALUMINUM " C " CLAMP FOR ROUND, SQUARE, RECTANGLE OR "H" SECTION SUBSTATION BUSES - ACME THREAD

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" (168 mm - 40 mm) Dia.	4500 RMS Amps, 60 Hz	7.3 (3.3)
4378	Oval Eye, w/ strain relief sleeve Smooth Jaw w/ Flat Lower Jaw	5 / A		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)
GRADE 3 BRONZE FLAT JAW GROUNDING CLAMPS - "V" THREAD					
1814	"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)
1815	Eye Screw w/ strain relief sleeve Serrated Jaw	3 / B		300 RMS Amps, 60 Hz	1.6 (.7)

GRADE 5 ALUMINUM FLAT JAW GROUNDING CLAMP - ACME THREAD

4345	"T" screw w/ strain relief sleeve, Serrated Jaw	5 / B	1.5" - .06"	400 RMS Amps, 60 Hz	2.1 (.9)
24442	"T" screw w/ strain relief sleeve Serrated Jaw	5 / B	Flat or Square	400 RMS Amps, 60 Hz	2.1 (.9)
4369	Eye Screw w/ strain relief sleeve Serrated Jaw	5 / B	1.26" - .06" (32 mm - 1.5 mm)Dia.	400 RMS Amps, 60 Hz	2.0 (.9)
24441	Eye Screw w/ strain relief sleeve Serrated Jaw	5 / B		400 RMS Amps, 60 Hz	2.0 (.9)

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

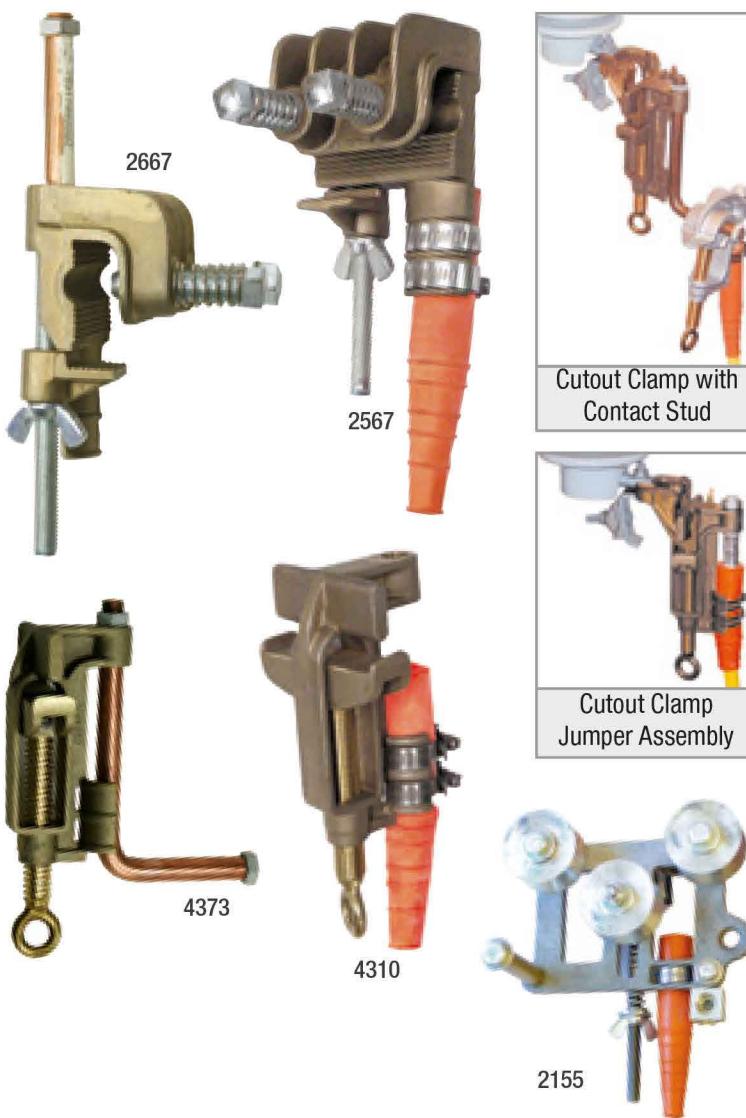
HEAVY DUTY DUAL-PURPOSE CLAMPS & SPECIALTY CLAMPS

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)
HEAVY DUTY BRONZE "C" TYPE FLAT JAW CLAMP					
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)

BRONZE CUTOUT CLAMPS - "V" THREAD

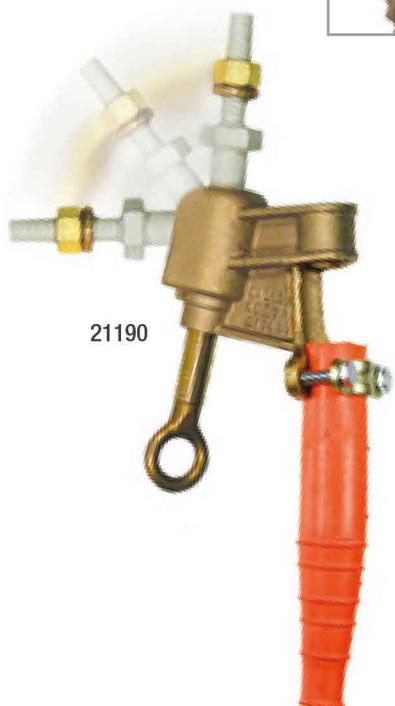
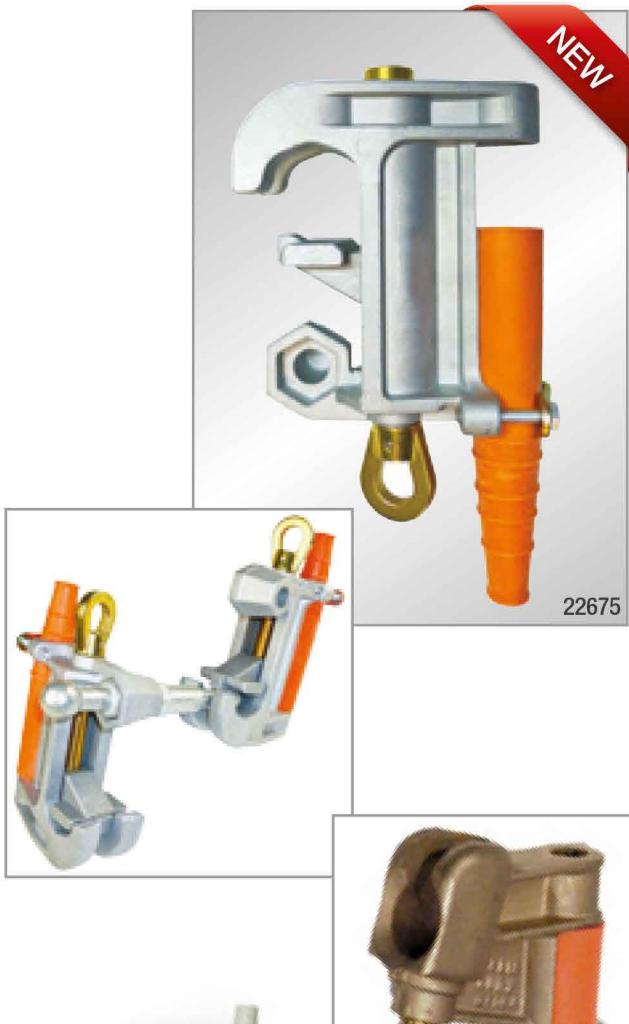
		TAP SIZE	CONTINUOUS CURRENT RATING
4310	Eye, w/ ferrule connection	Grade 5	500 RMS Amps, 60 Hz 2.1 (1.1)
4373	Eye, w/ contact stud	Grade 5	400 RMS Amps, 60 Hz 3.3 (1.5)
4379	Contact stud only	Grade 5	400 RMS Amps, 60 Hz 1.2 (.5)

STRINGING GROUND

		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)

BALL & SOCKET SYSTEM

SOCKET CLAMP & BALL STUD "C" CLAMP



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	5	400 Amps	2.6 (1.18)

GROUNDING CABLES

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

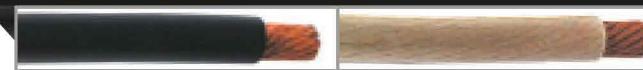
The yellow thermoplastic elastomer jacketed cable is the standard for grounding service. It provides a combination of economy, flexibility and durability. The service temperature ranges from 200° to -50°F. ASTM F 855 Type I.

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



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		
YELLOW							
2136	#2-665W	.35 (8.9)	.50 (12.7)	14500	10000	200	282 (127)
2137	1/0-1064W	.45 (11.4)	.62 (15.7)	21000	15000	250	488 (221)
2138	2/0-1330W	.49 (12.4)	.65 (16.5)	27000	20000	300	537 (243)
2139	4/0-2109W	.62 (1.7)	.83 (21.1)	43000	30000	400	836 (379)
BLACK							
2636	#2-665W	.35 (8.9)	.47 (12)	14500	10000	200	263 (119)
2637	1/0-1064W	.45 (11.4)	.58 (14.7)	21000	15000	250	404 (183)
2638	2/0-1330W	.49 (12.4)	.63 (16)	27000	20000	300	497 (225)
2649	3/0-1672W	.55 (14)	.72 (18.3)	36000	25000	350	680 (308)
2639	4/0-2109W	.62 (1.7)	.78 (19.8)	43000	30000	400	770 (349)
CLEAR PVC							
2128	#2-665W	.35 (8.9)	.53 (13.5)	14500	10000	200	289 (131)
2129	1/0-1064W	.45 (11.4)	.64 (16.3)	21000	15000	250	520 (235)
2133	2/0-1330W	.49 (12.4)	.70 (17.8)	27000	20000	300	546 (247)
2288	4/0-2109W	.62 (1.7)	.84 (21.3)	43000	30000	400	841 (381)



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)
COPPER SHROUDED					
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)
COPPER UNSHROUDED					
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)
ALUMINUM SHROUDED					
24434	#2	50	71	-	0.1 (.045)
24436	2/0	60	76	-	0.15 (.07)
24437	4/0	71	106	-	0.15 (.07)
ALUMINUM UNSHROUDED					
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)

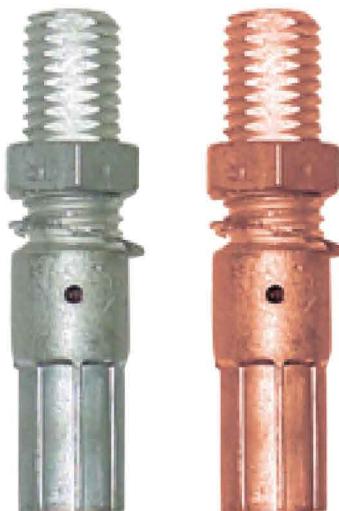
*Add suffix "A" to the end of the catalog number when requesting a custom built insulated grounding set.

THREADED GROUNDING FERRULES & STRAIN RELIEF SLEEVES

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 threaded grounding ferrules are unshrouded and manufactured with a 5/8-11 UNC threaded stud and meets the requirements of ASTM F855.



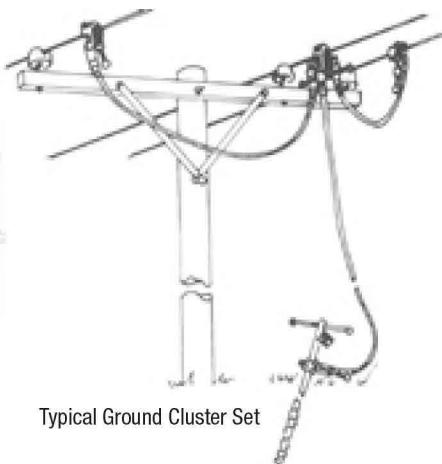
CAT. NO.	ASTM GRADE	SIZE	INSTALLING DIE CODES T&B	BURNDY DIE NUMBERS	WEIGHT EA. PAIR lbs. (kgs)
ALUMINUM THREADED GROUNDING FERRULES					
2026	1	#2	50	-	.2 (.1)
2027	2	1/0	50	-	.2 (.1)
2620	3	2/0	60	-	.3 (.1)
2640	5	4/0	71	-	.3 (.1)
COPPER THREADED GROUNDING FERRULES					
2022	1	#2	50	U243	.5 (.2)
2023	2	1/0	50	U243	.4 (.2)
2024	3	2/0	60	U245	.4 (.2)
4277	4	3/0	66	-t	.6 (.3)
2025	5	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)
CABLE STRAIN RELIEF SLEEVES		
0786	Tapered Outer SALCOR® Sleeve Only	.1 (.04)
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)





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 representative for assistance or visit

CAT. NO.	DESCRIPTION	ASTM GRADE	WEIGHT EA. lbs. (kgs)
SINGLE GROUNDING ASSEMBLIES			
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. #1852 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)
2558	2 ea. #1853 Serrated Aluminum Duck Bill Clamp 1.25" 1 ea. #1858 Hanger Stud, 1 pr. #2027 Ferrules 6 ft. #2137 1/0 Cu. Yellow Cable	2	5.5 (2.5)
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

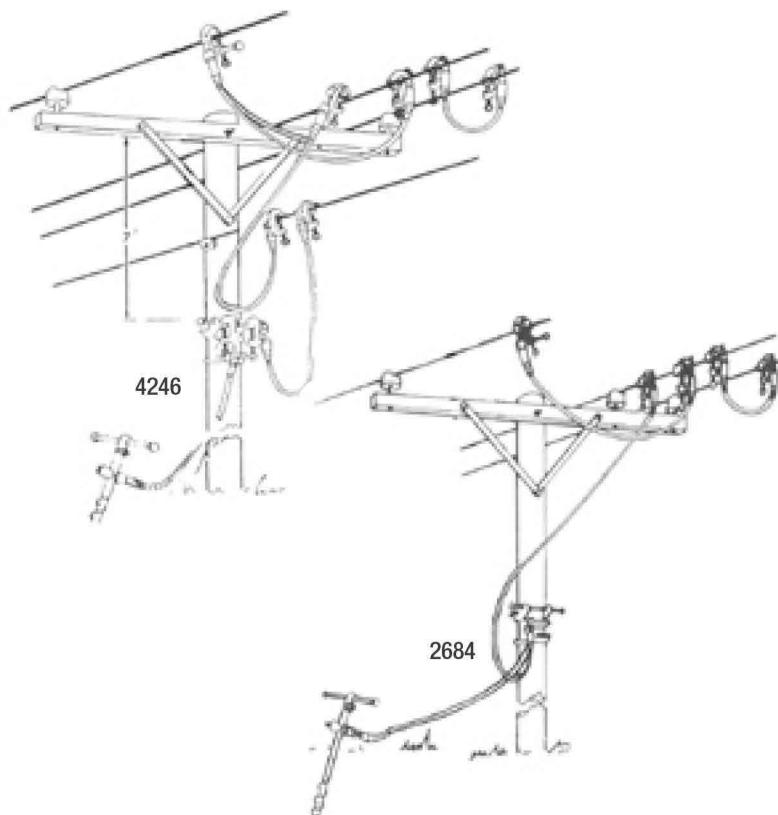
SINGLE POINT DISTRIBUTION GROUNDING SETS & SPECIAL APPLICATION SETS

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.

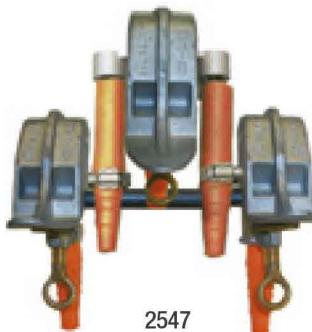
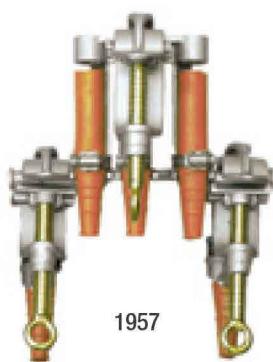
The SPECIAL APPLICATIONS GROUNDING

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 representative can answer any questions you have on personal protection grounding needs and applications.

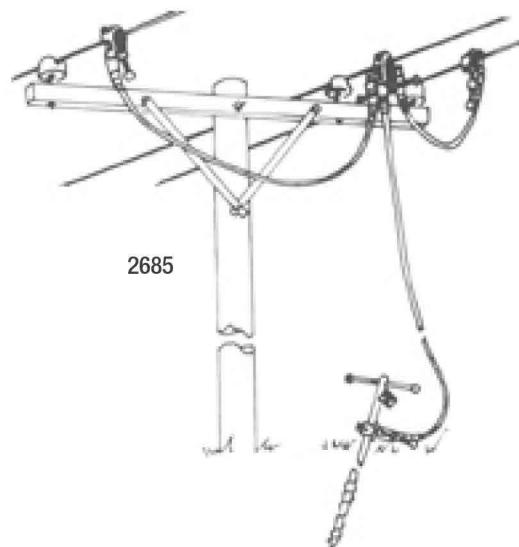


CAT. NO.	DESCRIPTION	ASTM GRADE	WEIGHT EA. lbs. (kgs)
SINGLE POINT GROUNDING ASSEMBLIES			
4246	Complete Distribution Grounding Set 10 ea. #2531 Smooth Aluminum "C" Clamps 795 MCM 1 ea. #9998 Aluminum Pole Mount Contact Bar 5 pr. #2026 Ferrules 3 ea. #2537 Hanger studs 60 ft. #2636 # Cu. Cable 1 ea. #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			
2684	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)
4249	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			
4276	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.



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.



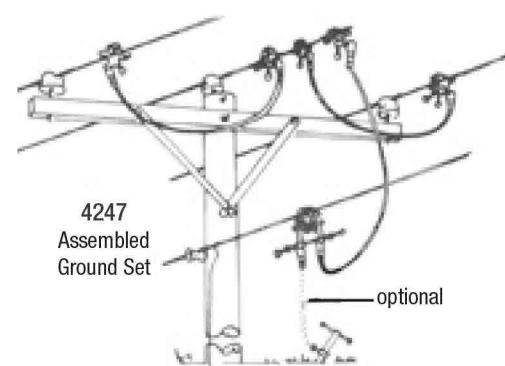
CAT. NO.	DESCRIPTION	ASTM GRADE	WEIGHT EA. lbs. (kgs)
1790	Cluster w/ 3 #1793 Smooth Jaw 556 MCM Bronze Duck Bill Clamps	4	6 (2.7)
1957	Cluster w/ 3 #1895 Serrated Jaw 1.5" Aluminum "C" Clamps	5	6.4 (2.9)
2534	Cluster w/ 3 #2531 Smooth Jaw 1" Aluminum "C" Clamps	5	4.9 (2.2)
2547	Cluster w/ 3 #1853 Serrated Jaw 1.66" Aluminum Duck Bill Clamps	5	5.4 (2.5)
2685	Assembled Ground Cluster Set 1 ea. #2516 Serrated Aluminum "C" Clamp 1.25" Cluster 74 ft. #2637 1/0 Cu. Cable 3 pr. #2027 Ferrules, 1 ea. #2103 Screw Ground Rod 1 ea. #2654 Storage Bag	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)
4 WIRE UNIVERSAL GROUNDING CLUSTERS & SETS			
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)



24438



21702



2374

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)

Optional ground set label available upon request when ordering.



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)
COMPLETE 3 PHASE DELTA		
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)
COMPLETE 3 PHASE DELTA		
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

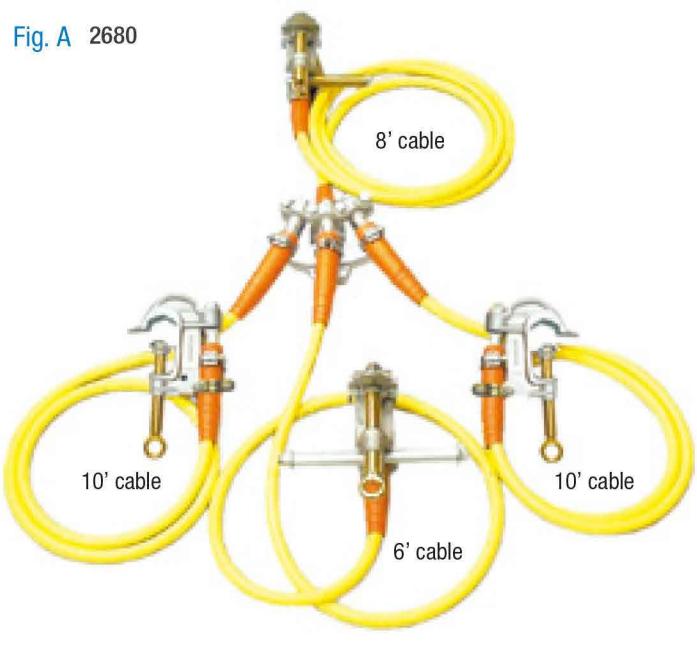
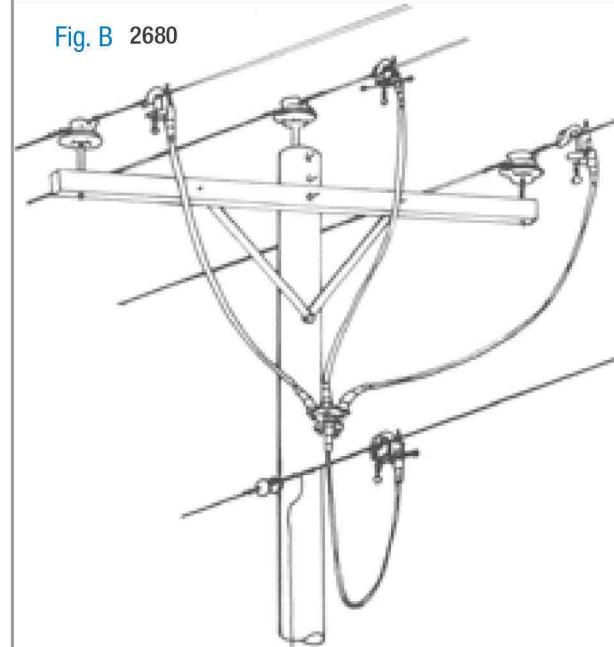


Fig. B 2680





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 ^A					Continuous Current Rating, A RMS, 60 Hz
	Yield ^B		Ultimate		Withstand Rating, Symmetrical kA RMS, 60 Hz			Ultimate Rating Capacity ^{CD} , 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

^A 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).

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

^C Ultimate rating represents a symmetrical current which the assembly or individual components shall carry for the specified time.

^D 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			Test Duration (cycles)
		Rating Current (kA)	1st Cycle Current Peak (kA) X 2.69	X/R = 30	
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.

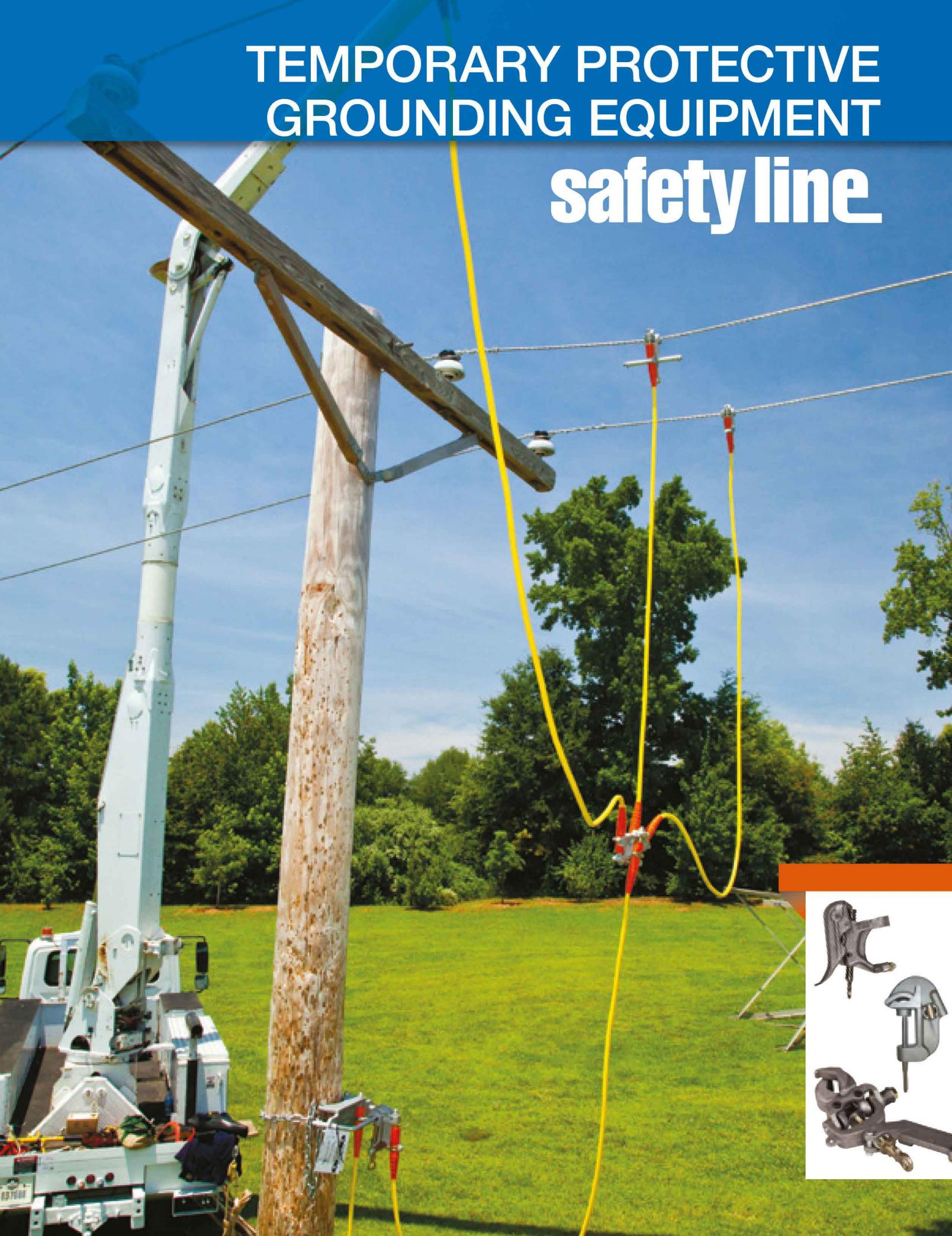
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TEMPORARY PROTECTIVE GROUNDING EQUIPMENT

safety line



TEMPORARY PROTECTIVE GROUNDING EQUIPMENT

safety line

ADDITIONAL SCREW OPTIONS AVAILABLE WHERE DESIGNATED



B



E



EB



PG



QC



RT



T



TB



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

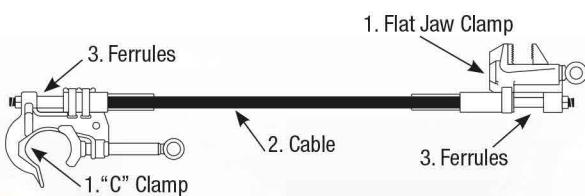
NOTE:

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. 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.

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

DUCK BILL GROUNDING CLAMPS

1.13" AND 1.63" SIZES



767E



767PSE



768E

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



760SR6E



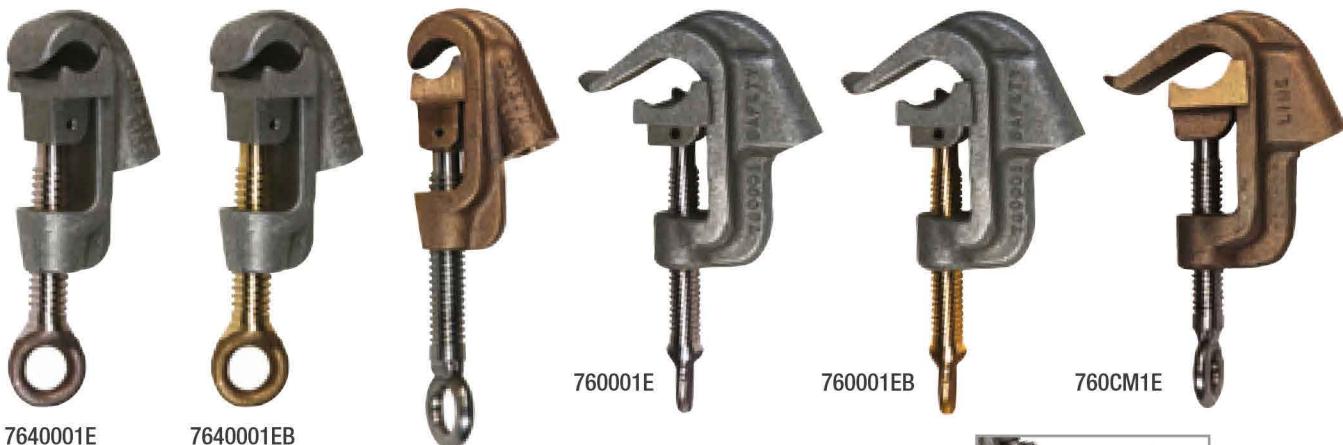
Strain Relief System

CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
1.13" SMOOTH JAW ALUMINUM DUCK BILL CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM					
767E	Stainless Steel Eye, Smooth Jaw	3 / A	795 MCM ACSR to #6	300 RMS Amps, 60Hz	1.4 (0.63)
768E	Stainless Steel Eye, Open Clamp, Smooth Jaw	3 / A	.19" - 1.13" (4.8 mm - 28.7 mm) Dia.	300 RMS Amps, 60Hz	1.4 (0.63)
1.63" SMOOTH JAW ALUMINUM DUCK BILL CLAMPS - THREADED					
767PSE	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	1.6 (0.73)
760006E	Stainless Steel Eye, Smooth Jaw	5 / A		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)
7600S6E	Stainless Steel Eye, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	3.0 (1.36)
760SRS6E	Stainless Steel Eye, Serrated Jaw w/ Strain Relief System	5 / B		400 RMS Amps, 60Hz	2.2 (1.00)
1.63" SMOOTH JAW ALUMINUM DUCK BILL CLAMPS - PIN - W/O STRAIN RELIEF SYSTEM					
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 Representative for more information.

"C" TYPE GROUNDING CLAMPS

.75", 1.25" AND 1.5" SIZES



7640CMS1E

760001E

760001EB

760CM1E

7640CMS1E



Strain Relief System

CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
0.75" ALUMINUM "C" CLAMP - THREADED - W/O STRAIN RELIEF SYSTEM					
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)
0.75" BRONZE "C" CLAMP - THREADED - W/O STRAIN RELIEF SYSTEM					
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)

1.25" ALUMINUM "C" CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM

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, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	1.3 (0.59)
760001PSE	Stainless Steel Eye, w/ Parking Stand, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	1.3 (0.59)
760001EB	Bronze Eye	5 / B		400 RMS Amps, 60Hz	- -

1.25" BRONZE "C" CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM

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)

1.5" ALUMINUM "C" CLAMPS - THREADED W/ STRAIN RELIEF SYSTEM

760SR1EB	Bronze Eye, w/ Strain Relief System, Smooth Jaw	5 / A	1035.5 MCM ACSR to #6 .19" - 1.5" (4.8 mm - 38 mm) Dia.	400 RMS Amps, 60Hz	1.6 (0.75)
760SRS1E	Stainless Steel Eye, w/ strain relief system, Smooth Jaw	5 / A		400 RMS Amps, 60Hz	5.0 (2.27)

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

“C” TYPE GROUNDING CLAMPS

2.13" AND 2.5" SIZES



7660001PG



7660001E



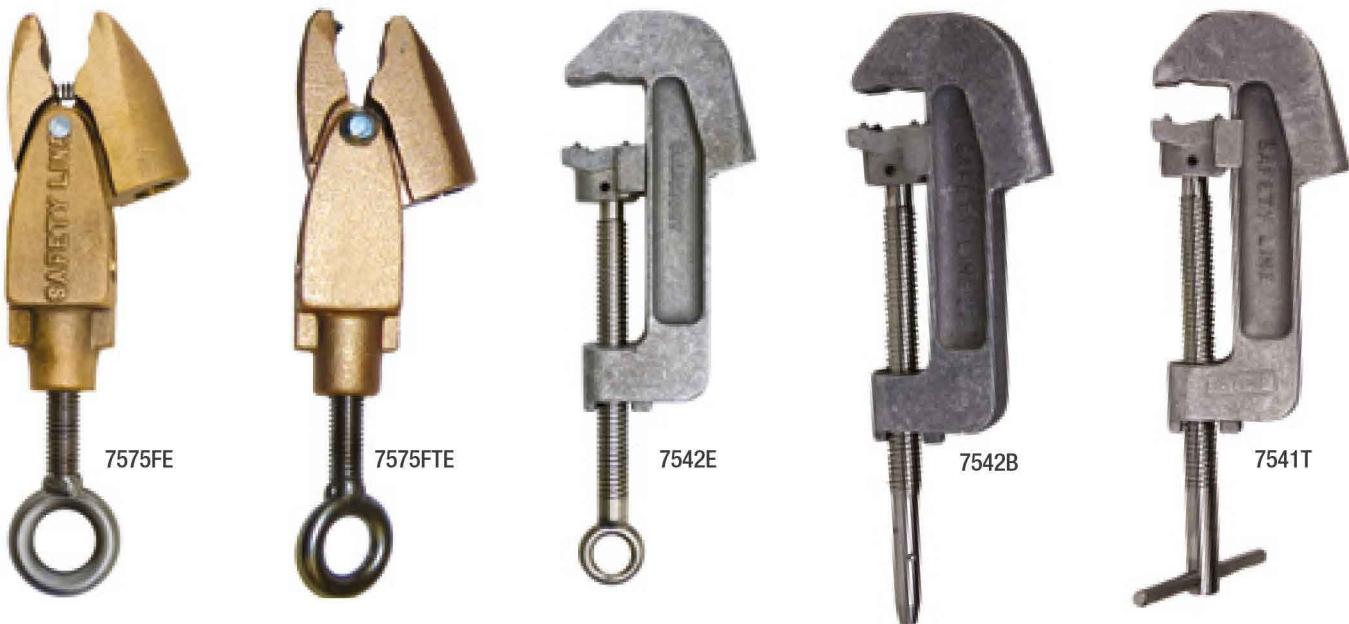
7512B

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

BUS BAR AND BUS BAR ALLIGATOR CLAMPS

.5", AND 4.4" SIZES



CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
0.5" BRONZE BUS BAR ALLIGATOR CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM					
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)
0.5" BRONZE BUS BAR ALLIGATOR CLAMPS WITH TEETH - THREADED - W/O STRAIN RELIEF SYSTEM					
7575FTE	Stainless Steel Eye, Serrated Jaw	2 / B	0.234" - .05" (6 mm - 12.7 mm) Dia.	250 RMS Amps, 60 Hz	2.0 (0.91)
7575FTGA	Stainless Steel Grip-All, Serrated Jaw	2 / B		250 RMS Amps, 60 Hz	2.0 (0.91)
4.4" ALUMINUM BUS BAR CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM					
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			400 RMS Amps, 60Hz	2.0 (0.91)
4.4" ALUMINUM BUS BAR CLAMPS - PIN - W/O STRAIN RELIEF SYSTEM					
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 Representative for more information.

GROUNDING CLAMPS FOR FLATS & ANGLES

1.4" AND 1.5" SIZES



760CM3E



73025T



760CMSR3E

CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
1.4" ALUMINUM FLAT FACE CLAMPS - PIN - W/O STRAIN RELIEF SYSTEM					
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)
760002EB	Bronze Eye, Serrated Jaw	5 / B		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)
1.4" ALUMINUM FLAT FACE CLAMPS - THREADED					
760SR3E	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	1.5 (0.68)
1.4" BRONZE FLAT FACE CLAMPS - THREADED					
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)
1.5" ALUMINUM FLAT FACE CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM					
760003B	Stainless Steel Bayonet, Serrated Jaw	5 / B	0.19" - 1.5" (4.8 mm - 38 mm) Dia.	400 RMS Amps, 60Hz	1.2 (0.54)
760003E	Stainless Steel Eye, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	1.2 (0.54)
760003EB	Stainless Steel Eye, Serrated Jaw	5 / B		400 RMS Amps, 60Hz	1.2 (0.54)
1.5" BRONZE FLAT FACE CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM					
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)
760CM3T	Stainless Eye, Serrated Jaw	5 / B	0.19" - 1.5" (4.8 mm - 38 mm) Dia.	400 RMS Amps, 60Hz	3.2 (1.40)

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



7315PG



7304DE



7316E

CAT. NO.	EYE & CLAMP DESCRIPTION	ASTM GRADE / CLASS	MAIN LINE RANGE	CONTINUOUS CURRENT RATING	WEIGHT EA. lbs. (kgs)
2.5" ALUMINUM ALL ANGLE CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM					
7315E	Stainless Steel Eye, Serrated Jaw	5 / B	2" I.P.S. to #4	400 RMS Amps, 60Hz	4.3 (2.00)
7315B	Stainless Steel Bayonet, Serrated Jaw	5 / B	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)
2.5" ALUMINUM TOWER ANGLE CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM					
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)
4" ALUMINUM TOWER ANGLE CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM					
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)
4" ALUMINUM TOWER ANGLE CLAMPS - PIN + THREADED - W/O STRAIN RELIEF SYSTEM					
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)
7320SB	Stainless Steel Bayonet, Smooth Jaw	5 / A	0.4" - 2.5" (10-64 mm) Dia.	400 RMS Amps, 60Hz	5.0 (2.27)
4" ALUMINUM TOWER ANGLE CLAMP - PIN - WITH SPIKE POINT, NO GROUND LEAD					
7320PGA	Stainless Steel Grip-All, Smooth Jaw	5 / A	0.25" - 0.94" (6-24 mm) Dia.	400 RMS Amps, 60Hz	3.3 (1.50)
4" ALUMINUM TOWER ANGLE CLAMPS WITH COPPER PARKING STAND - RATED FOR 49KA FOR 15 CYCLES W/ X/R=25					
7316E	Stainless Steel Eye, Smooth Jaw	Exceeds Grade 5	Inside Angle Clamp 4" max.	-	-
7304DE	Stainless Steel Eye, Smooth Jaw	Exceeds Grade 5	Outside Angle Clamp 4" max.	-	-

Additional screw options available. See page J-2 or contact your local 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)
4.5" ALUMINUM SUBSTATION BUS CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM					
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)

6" ALUMINUM SUBSTATION BUS CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM					
R101DE	Stainless Steel Eye, Serrated Jaw	5 / B	1 0 I.P.S., 0.5" - 6" (12.7 mm - 152 mm) Dia.	400 RMS Amps, 60Hz	4.0 (1.82)

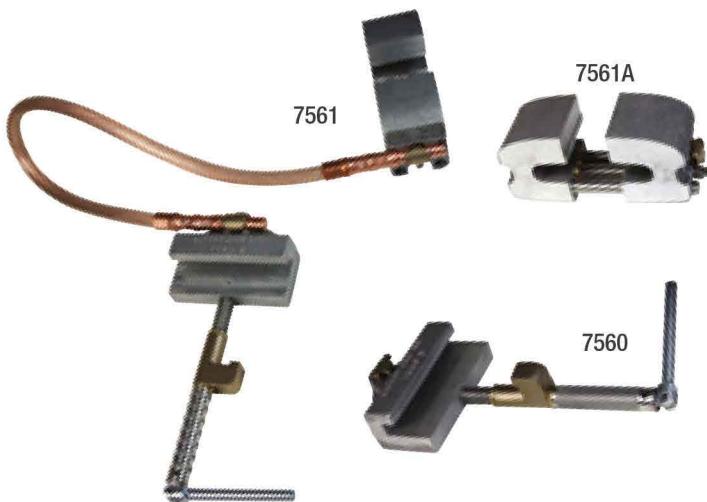
7" ALUMINUM SUBSTATION BUS CLAMPS - THREADED - W/O STRAIN RELIEF SYSTEM					
73065E	Stainless Steel Eye, Smooth Jaw	5 / B	0.4" - 7" (10.2 mm - 178 mm) Dia.	400 RMS Amps, 60Hz	6.7 (3.00)

4.5" ALUMINUM SUBSTATION BUS CLAMPS - PIN - W/O STRAIN RELIEF SYSTEM					
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)

1.63" ALUMINUM CUTOUT CLAMPS - THREADED - W/O STRAIN RELIEF SLEEVE					
7640002E	Stainless Steel Eye, Smooth Jaw	3 / A		300 RMS Amps, 60Hz	1.0 (0.45)
7640002EB	Bronze 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			300 RMS Amps, 60Hz	1.2 (0.5)

1.63" BRONZE CUTOUT CLAMPS - THREADED - W/O STRAIN RELIEF SLEEVE					
7640CM2T	Stainless Steel T-Handle, Smooth Jaw	3 / A	0.188" - 1.63" (4.77 mm - 41.4mm) Dia.	300 RMS Amps, 60Hz	2.0 (0.91)

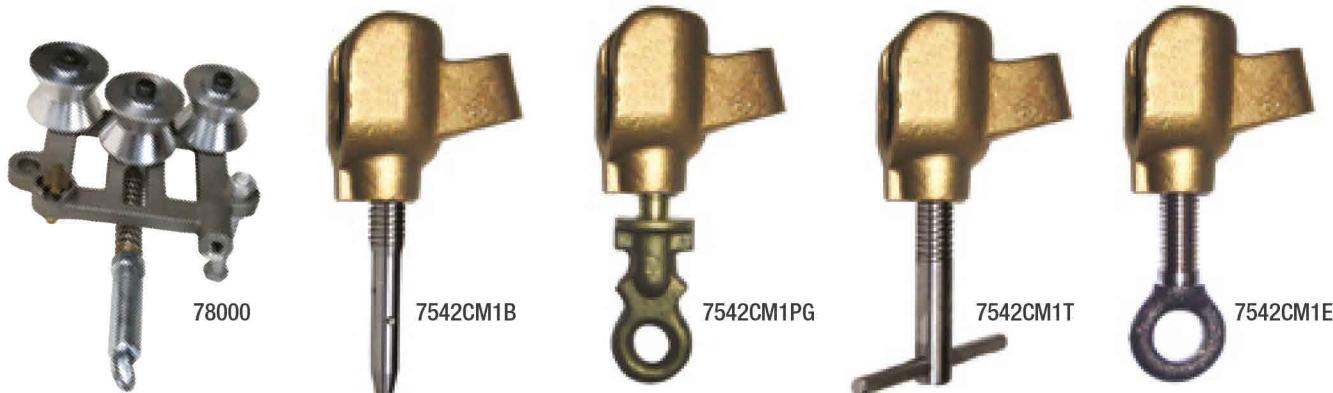
Additional screw options available. See page J-2 or contact your local Representative for more information.



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)
5.75" ALUMINUM RUNNING RAIL CLAMP - PIN					
7560	Stainless Steel Toggle Handle, Smooth Jaw	5 / B	5" - 5.75"	400 RMS Amps, 60Hz	5.0 (2.27)
4" ALUMINUM POWER RAIL CLAMP - PIN					
7561A	Stainless Steel Bayonet, Smooth Jaw	5 / B	0" - 4"	400 RMS Amps, 60Hz	7.0 (3.17)
4" ALUMINUM POWER RAIL CLAMP - THREADED					
7561B	Stainless Steel Bayonet, Smooth Jaw	5 / B	0" - 4"	400 RMS Amps, 60Hz	7.0 (3.17)
TRAVELING GROUND					
7561	Running Power Rail Ground Set	5	-	-	15 (6.80)
1.63" ALUMINUM TRAVELING GROUND CLAMPS - PIN/THREADED					
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)
BALL & SOCKET SYSTEM				
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)
7542CM2E	Smooth Jaw, Pin, w/ Stainless Steel Eye	5	400	1.9 (.86)

Additional screw options available. See page J-2 or contact your local 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.



7600011PT42

7600011CT42

7600011CT41T

98132023P

98132023

CAT. NO.	CONDUCTOR SIZE	STYLE	STUD SIZE	BODY DIE CODES	SHROUD DIE CODES	LENGTH STRIPPED INCHES
COPPER SHROUDED						
760001CT40	#2	Threaded	5/8-11	U27RT	U27ART	1-5/8
7600011CT41	1/0	Threaded	5/8-11	T&B 66	B75-AH	1-15/16
7600011CT42	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
7600011PT41	1/0	Pin	11/16	T&B 66	B75-AH	1-15/16
7600011PT42	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.

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

760001AT40	#2	Threaded	5/8-11	U27RT	U27ART	1-5/8
7600011AT41	1/0	Threaded	5/8-11	T&B 66	B75-AH	1-15/16
7600011AT42	2/0	Threaded	5/8-11	T&B 66	B75-AH	2
76AT43	4/0	Threaded	5/8-11	T&B 66	B75-AH	2
760001PA40	#2	Pin	11/16	U27RT	U27ART	1-5/8
7600011PA41	1/0	Pin	11/16	T&B 66	B75-AH	1-15/16
7600011PA42	2/0	Pin	11/16	T&B 66	B75-AH	2
76PA43	4/0	Pin	11/16	T&B 66	B75-AH	2

98132A22	#2	Threaded	5/8-11	U243	-	1-5/16
98132A23	1/0	Threaded	5/8-11	U243	-	1-5/16
98132A24	2/0	Threaded	5/8-11	T&B 60	-	1-5/16
98132A25	4/0	Threaded	5/8-11	T&B 62	-	1-5/16
98132A22P	#2	Pin	11/16	U243	-	1-5/16
98132A23P	1/0	Pin	11/16	U243	-	1-5/16
98132A24P	2/0	Pin	11/16	T&B 60	-	1-5/16
98132A25P	4/0	Pin	11/16	T&B 62	-	1-5/16

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



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	43 kA	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)

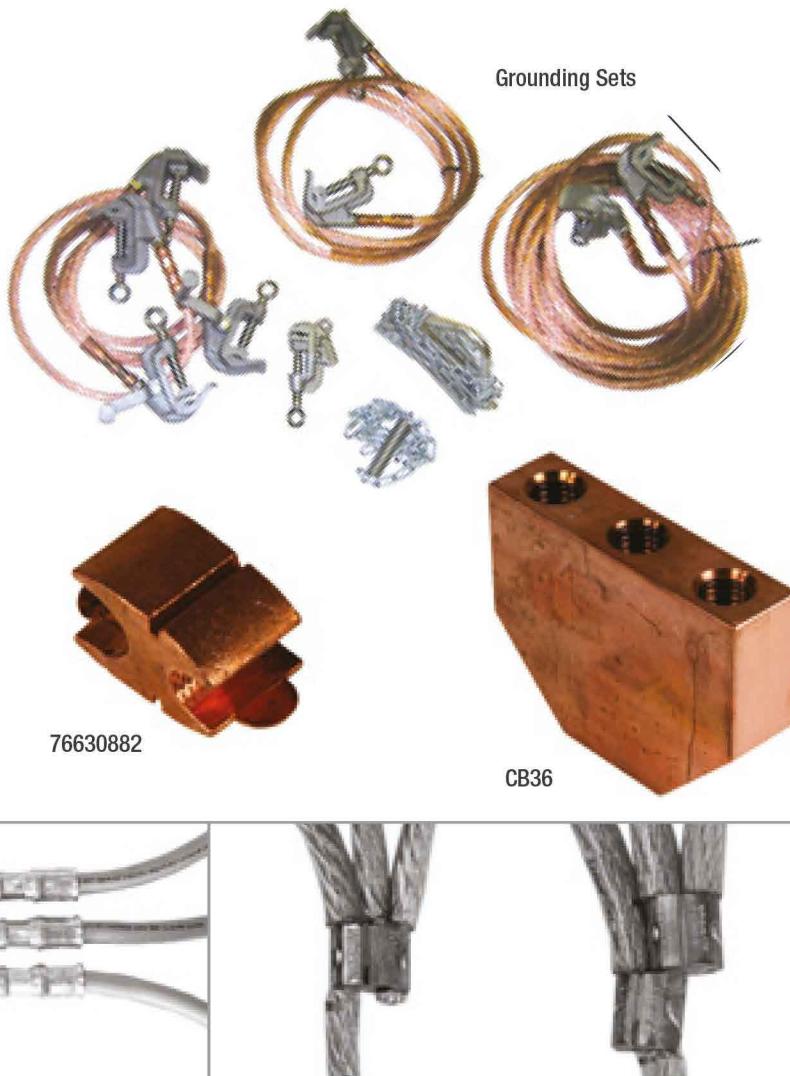
Optional ground set label available upon request when ordering.

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)
4 WAY CONNECTOR SETS				
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)
CONNECTORS FOR GROUND SETS			
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 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)
QUICK GRIP GROUND CLAMPS & GROUNDING SETS, CLAMP OPENING: MIN. 0.125" - MAX. 1.5"					
VG01	VGF01	Locking Pliers, Cu Overlay	N/A	3	1.5 (0.68)
VG01B	VGF01B	Locking Pliers, Cu Overlay. Bayonet	N/A	3	1.6 (0.73)
VG01GA	VGF01GA	Locking Pliers, Cu Overlay. Grip-All	N/A	3	1.6 (0.73)
VG01013	VGF01013	Single Lead, 1/0 x 3' with VG01	3 (0.914)	3	3.6 (1.63)
VG01033	VGF01033	Grounding Set, 3 Leads, 1/0 x 3' with VG01	9 (2.743)	3	10.5 (4.77)
VG01034	VGF01034	Grounding Set, 4 Leads, 1/0 x 3' with VG01	12 (3.657)	3	13.2 (5.99)
VG11013	VGF11013	Single Lead, 1/0 x 3' with VG01GA	3 (0.914)	3	3.7 (1.68)
VG11013B	VGF11013B	Single Lead, 1/0 x 3' with VG01GB	3 (0.914)	3	3.7 (1.68)
VG11033	VGF11033	Grounding Set, 3 Leads, 1/0 x 3' with VG01GA	9 (2.743)	3	10.8 (4.9)
VG11033B	VGF11033B	Grounding Set, 3 Leads, 1/0 x 3' with VG01GB	9 (2.743)	3	10.8 (4.9)
VG11034	VGF11034	Grounding Set, 4 Leads, 1/0 x 3' with VG01GA	12 (3.657)	3	13.6 (6.17)
VG11034B	VGF11034B	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 and a tag 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



75FGT0266

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 (1.83 m) 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.

CAT. NO.	DESCRIPTION	ASTM GRADE	WEIGHT Ibs. (kgs)
INDUSTRIAL GROUND SETS			
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. Ibs. (kgs)
LIGHTWEIGHT INDUSTRIAL GROUND SETS					
75FGT0266	Lightweight	7575FTE	14.5 kA	1	15 (6.80)
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.)
PARKING STUDS		
76000APS	Single Stud	0.187 (0.085)
SHRINK TUBE		
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, splicing 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 (1.83 m) 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.

CAT. NO.	DESCRIPTION	FOR CABLE DIAMETER in. (cm)	WEIGHT lbs. (kgs)
CONCENTRIC NEUTRAL JUMPER ASSEMBLY			
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)
7604	Assembly	2 to 4 (5.1 - 10.2)	12 (5.44)
7604GA	Grip-All Assembly	2 to 4 (5.1 - 10.2)	12 (5.44)
PARTS			
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)
ES10Y635LB	Single, 35 kV	10 (4.53)
ES1Y21035LB	Set, 35 kV	23 (10.43)

Optional ground set label available upon request when ordering.





EB100615



EB1021015



EB1021015LB



764150025LS0



ES1021015LB

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.

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.

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-feet (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.

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
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)
ES1LY635	Single, 35 kV	10 (4.53)
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		
764015SO	15 kV	1 (0.45)
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 ^A								Continuous Current Rating, A RMS, 60 Hz	
	Yield ^B		Ultimate		Withstand Rating, Symmetrical kA RMS, 60 Hz				Ultimate Rating Capacity ^{CD} , 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		

^A 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).

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

^C Ultimate rating represents a symmetrical current which the assembly or individual components shall carry for the specified time.

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

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.

TEMPORARY PROTECTIVE GROUNDING EQUIPMENT & ACCESSORIES



ASTM TABLES



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 ^A								Continuous Current Rating, A RMS, 60 Hz	
	Yield ^B		Ultimate		Withstand Rating, Symmetrical kA RMS, 60 Hz				Ultimate Rating Capacity ^{CD} , 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		

^A 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).

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

^C Ultimate rating represents a symmetrical current which the assembly or individual components shall carry for the specified time.

^D 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			Test Duration (cycles)
		Rating Rated Current (kA)	X/R = 30 1st Cycle Current Peak (kA) X 2.69	Last Cycle Current Peak (kA)	
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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BALL & SOCKET SYSTEM

BALL STUDS



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	OAL	DIMENSIONS in. (mm) THREAD	SHANK	ASTM GRADE	WEIGHT EA. lbs. (kgs)
THREAD SIZE - 1/2" - 13 UNC - 2A						
21191	Ball Stud Short, Tin-Plated Copper Alloy	4.38 (111)	2.12 (54)	1 (25)	5	.53 (.23)
7542121BS	Ball Stud, Copper Alloy	4.7 (119)	2.25 (57)	1 (25)	5	9 (16)
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	13 (23)
7542123BS	Ball Stud, Copper Alloy	6.78 (172)	2.5 (64)	2.875 (73)	5	13 (23)
7542125BST	Ball Stud, Tin-Plated Copper Alloy	9 (229)	2.12 (54)	5.5 (140)	5	16 (28)
7542905BS	900 Ball Stud, Copper Alloy	7 (178)x 5.2 (132)	2.12 (54)	5.5 (140), 2 (51)	3	20 (35)
7542905BST	900 Ball Stud, Tin-Plated Copper Alloy	7 (178)x 5.2 (132)	2.12 (54)	5.5 (140), 2 (51)	3	20 (35)
THREAD SIZE - 3/8" - 16 UNC - 2A						
7542385BST	Ball Stud, Tin-Plated Copper Alloy	9 (229)	2.12 (54)	5.5 (140)	5	16 (28)

NEMA PADS AND POTHHEAD STUD						
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)	5	1 (.45)
7542PHS	Pothhead Stud, Spade, Brass	5.4 (137)	-	-	2	14 (25)

INTERNAL THREAD - 1/2" - 13 UNC - 2A						
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	6 (11)
7542001BSF	Female Ball Stud, Brass	-	1.5 (38)	1 (25)	2	14 (25)
21236	Cover for Ball Stud	3 (76)	n / a	n / a	n / a	.09 (.04)

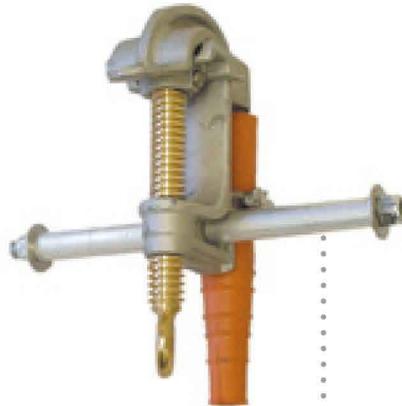
GROUNDING CLAMP HANGER STUDS

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.

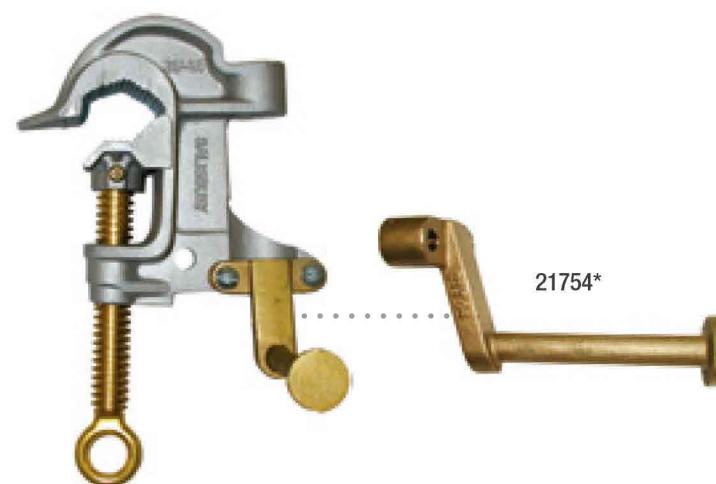
21754 Grounding Clamp Hanger Stud can only be placed on clamps designed with a screw down strain relief system.

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



760001HDL



7300ABC



7310G



7300AET



HCR0250

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.

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
ADAPTERS		
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)

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.

CAT. NO.	CABLE LENGTH	CABLE SIZE	FAULT DUTY 15 CYCLES	ASTM F-855 GRADE	WEIGHT lbs. (kgs)
TRUCK GROUNDING REEL SPRING REWIND, 760001E CLAMP					
HSCR0240	40' (12.2 m)	#2	14.5 kA	1	39 (17.7)
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)

TRUCK GROUNDING REEL HAND REWIND, 760001E CLAMP

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)
HCR1040	40' (12.2 m)	1/0	21 kA	2	46 (20.8)
HCR1050	50' (15.2 m)	1/0	21 kA	2	51 (23.1)

REELS WITHOUT CABLE

HSCR1	Reel only, spring rewind	21 kA	2	27 (12.2)
HCR1	Reel only, hand rewind	21 kA	2	25 (11.3)
HC1	Reel storage only, hand rewind	N/A	N/A	26 (11.8)

NOTE:

- Model HSCR1, with spring rewind, will store and operate with a maximum of 60 feet (18.3 m) of #2 cable and 50 feet (15.2 m) of 1/0 cable.
- Reel models HCR1 and HC1 will store a maximum length of 150 feet (45.8 m) of #2 cable and 85 feet (25.9 m) of 1/0 cable.

- To order factory installed cable of lengths different than shown above, give reel model number and length of cable required. Lengths should not exceed maximum operating and storage capacities.
- The use of 2/0 and 4/0 cable is not recommended since the fault duty rating of these cables exceeds that of the truck grounding reel.

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 21840 is a lighter-weight pole mounted contact bar.

The **POLE BAND** is lightweight and easy to install. It is a required component of equiptential 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.

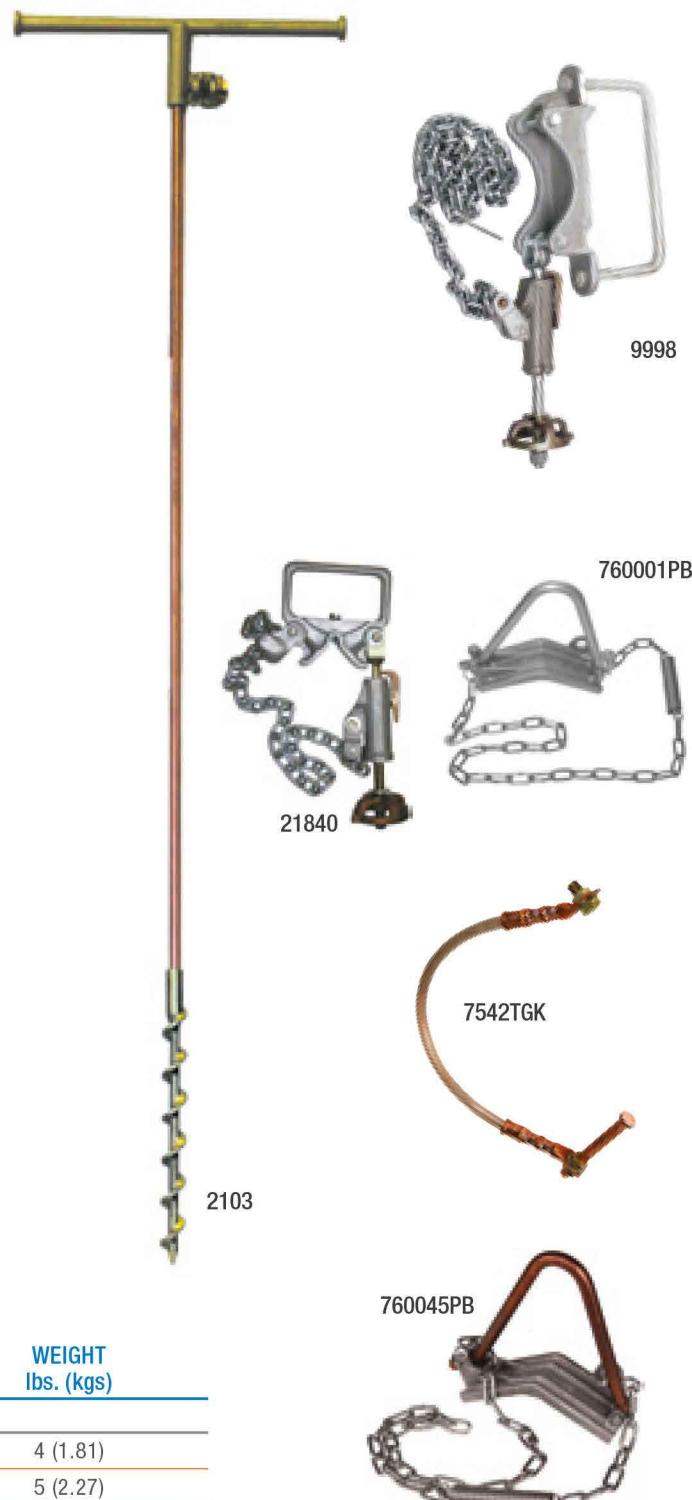
2103 SCREW TYPE TEMPORARY

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.

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
TRUCK GROUNDING KIT		
7542TGK	Truck Grounding Kit w/ Stud	2 (0.91)
7542TGKLS	Truck Grounding Kit w/o Stud	1.5 (0.68)
SCREW GROUND ROD		
2103	75" (1.9m)long	8 (3.6)

CAT. NO.	DESCRIPTION	FAULT DUTY 15 CYCLES	GRADE	WEIGHT lbs. (kgs)
POLE BAND				
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)
POLE MOUNTED CONTACT BARS			
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)

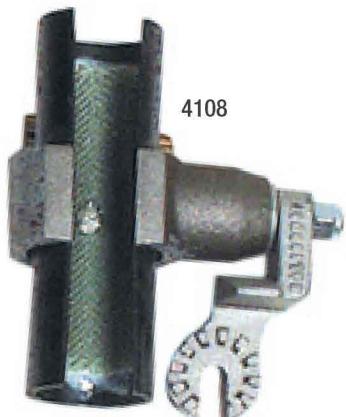




4110



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)
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200 AMP GROUND ELBOW WITH CONNECTIONS DEAD BREAK

764015GE	15 kV	1 (0.45)
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200 AMP GROUND ELBOW WITH CONNECTIONS TLOAD BREAK

764150015LGE	15 kV	1 (0.45)
764150025LGE	25/35 kV Small Interface	2 (0.91)

200 AMP ELBOW CONNECTOR TOOL

9202Q	Quick Change Fitting	2 (0.91)
9202U	Universal Fitting	2 (0.91)
9202GA	Grip-All Fitting	2 (0.91)

600 AMP ELBOW CONNECTOR TOOL

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)

INSULATED ELBOW REMOVER

9204HIP	4' (1.22 m) with 9202HQ	10 (4.53)
9206HIP	6' (1.83 m) with 9202HQ	11 (4.99)
9208HIP	8' (2.44 m) with 9202HQ	12 (5.44)

PARTS

9202HQ	Elbow Remover Head with Quick Change	2 (0.91)
9202HPQ	Impact Hammer with Quick Change	6 (2.72)
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	
UNDERGROUND GROUNDING STUDS						
1725001	Copper Electrode, Female, Hex Drive, w/Guide	5/8-11 (F)	Cu	1	17 kA	2.2 (1.0)
17250003	Steel Electrode, Male, Grip-All, w/Guide	5/8-11 (M)	Steel	3	27 kA	2.0 (0.9)
17250004	Steel Electrode, Female, Grip-All, w/Guide	5/8-11 (F)	Steel	3	27 kA	2.0 (0.9)
17250005	Steel Electrode, Male, Grip-All	3/4-10 (M)	Steel	3	27 kA	1.8 (0.8)
1735	Copper Electrode, Female, Hex Drive, w/Guide	5/8-11 (F)	Cu	4	35 kA	3.5 (1.6)
5900CS	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
PADMOUNT SWITCH HOOK	
190UGQ	With Quick Change
190UGU	With Universal
UNDERGROUND SPANNER WRENCH	
1720	For 600 AMP Connector
PLUG INSTALLING TOOL	
172300	1/2" (1.3 cm) Female Square Drive
172300Q	Quick Change



CAT. NO.	DESCRIPTION	QTY	WEIGHT lbs. (kgs)
GROUND ADAPTER DEVICE KIT - NON-LOAD BREAK			
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 2139 4/0 Cu Cable 2025 4/0 Cu Ferrules (Pair) 616 Bag US Patent # 544 7450	9.5 (4.3)
24321	8 (2.4)		11.2 (5.1)
24322	10 (3)		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)
HYDRAULIC GROUND SPIKE CLAMPS: CLAMP CAT. NO. 760001E, SPIKE DEPTH 1 5/8", CONDUCTOR MIN. 1" - MAX. 3"					
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)
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HYDRAULIC BLADE SPIKE CLAMPS: SPIKE BLADE W/ EYE SCREW, CLAMP CAT. NO. 760001E

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)
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HAND OPERATED GROUND SPIKE: SPIKE DEPTH 1 3/4", CONDUCTOR MIN. 1" - MAX. 3 1/2"

1712CS	3' FG Hndl, Toggle /GA	1/0 Clear / 760001E	14.5 kA / 15 / 1	15 (6.8)
1712Q	Spike Point w/QC	1/0 Clear / 760001E	14.5 kA / 15 / 1	10 (4.5)
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)
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HYDRAULIC CUTTER SPIKE: CLAMP CAT. NO. 760001E, CONDUCTOR MIN. 0" - MAX. 3 1/2"

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
SPIKES, BLADES AND TOOL HEADS	
1710E	Spike Point Complete for 1710
1710F	Spike Blade 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
17150066H	30' High Pressure Non-conductive Hose w/ Fittings, 10000 psi
17150066H1	30' High Pressure Hose Only, 10000 psi

HYDRAULIC RAM ASSEMBLIES AND RAMS

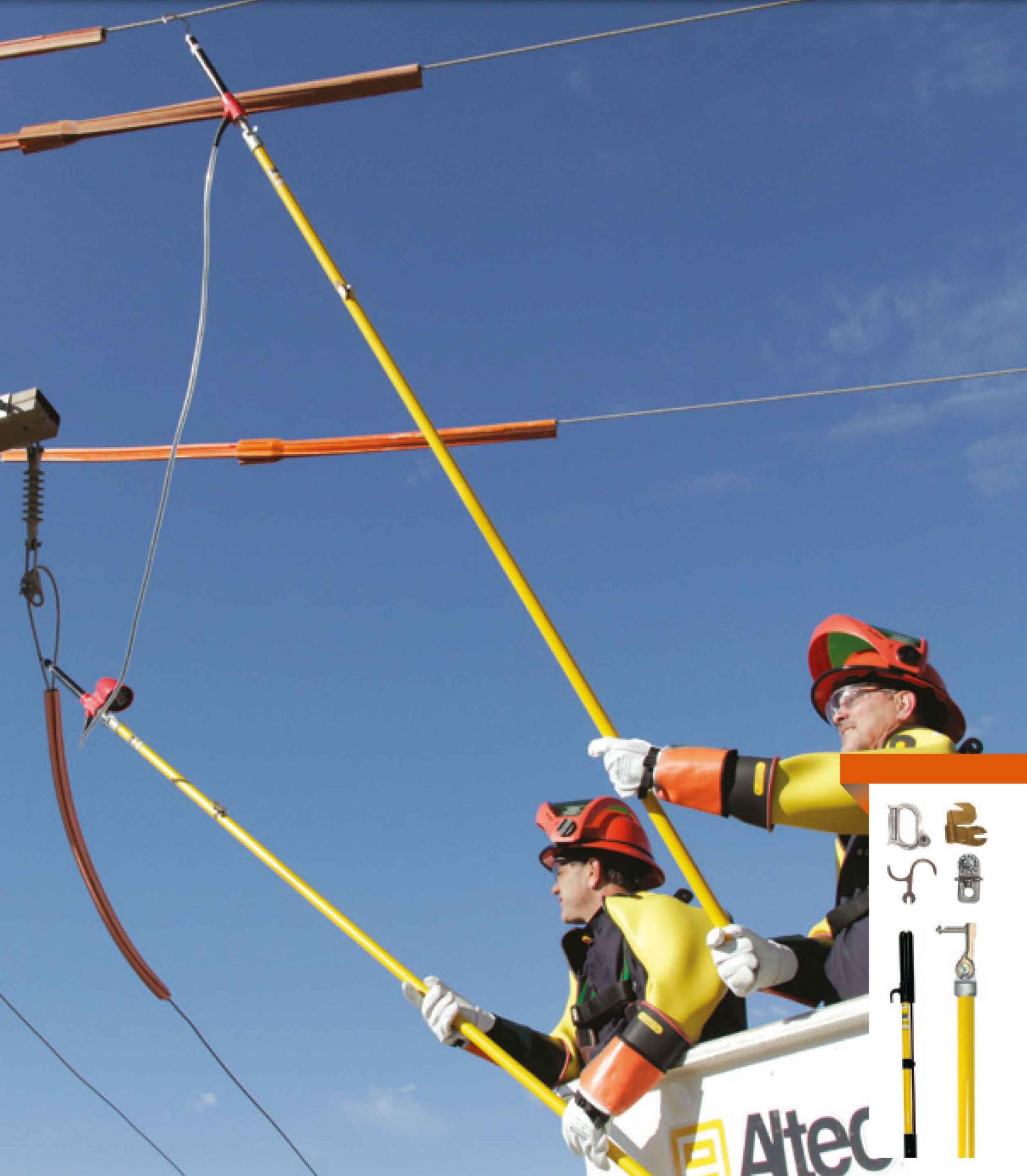
1715R	Enerpac Ram w/ Fittings, 1 5/8" Stroke
1715RCH121	Enerpac Ram Only, 1 5/8" Stroke
1715RSD	Enerpac Ram w/ 1/4" Fittings, 1 5/8" Stroke
171561RCH123	Enerpac Ram Only, 3" Stroke
17150066R	Enerpac Ram w/ Fittings, 6" Stroke
1715RCH306	Enerpac Ram Only, 6" Stroke

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



HOTSTICKS & TOOLS



Attec

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 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.

FAQ

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

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



Foam Filled Hot Stick

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.





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 feet	LENGTH meters	WEIGHT EA.	
			lbs.	kgs
EXTERNAL ROD CLAMPSTICK				
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.



Universal Switch Stick

CAT. NO.

DIMENSIONS: DIA. X LENGTH in x ft. mm x m

WEIGHT EA. lbs. kgs

ONE SECTION

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 ft. m	Top		Bottom		lbs.	kgs
	in. x ft.	mm x m	in. x ft.	mm x m		
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 ft. m	Top		Bottom		lbs.	kgs
	in. x ft.	mm x m	in. x ft.	mm x m		
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





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. HD	ST	DIMENSIONS: DIA. X LENGTH			WEIGHT EA.	
		in x ft.	mm x m	lbs.	kgs	
ONE SECTION						
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 ft. m	Top in. x ft. mm x m	Bottom in. x ft. mm x m	Weight lbs. kgs	
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 ft. m	Top in. x ft. mm x m	Bottom in. x ft. mm x m	Weight lbs. kgs	
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	

Fiberglass Hot Switch Stick

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.

SPICE 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.



CAT. NO.	DIMENSIONS		WEIGHT EA.	
	in.	mm	lbs.	kgs
FRP SLEEVE SPLICES				
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

CAT. NO.	DIMENSIONS: DIA. X LENGTH		WEIGHT EA.	
	in. x ft.	mm x m	lbs.	kgs
SPICE GUARD CAP				
4182	1.25 I.D.	31.7 I.D.	0.2	0.1

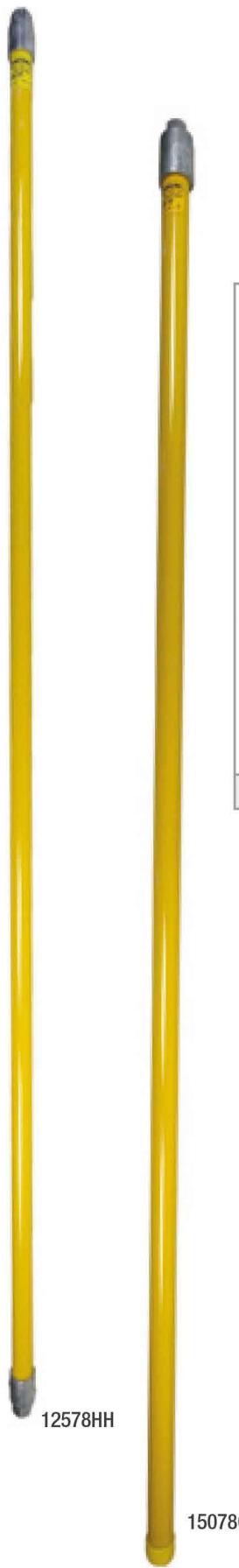
CAT. NO.	DIMENSIONS: DIA. X LENGTH		WEIGHT EA.	
	in. x ft.	mm x m	lbs.	kgs
DOUBLE ENDED UNIVERSAL				
4230	1.25 x 6	31.7 x 1.8	3.3	1.5
4231	1.25 x 8	31.7 x 2.4	4	1.8
4232	1.25 x 10	31.7 x 3	4.8	2.2
4233	1.25 x 12	31.7 x 3.6	5.5	2.5
4234	1.25 x 14	31.7 x 4.3	6.3	2.8

CAT. NO.	DIMENSIONS: DIA. X LENGTH		WEIGHT EA.	
	in. x ft.	mm x m	lbs.	kgs
UNIVERSAL W/ ROTARY PRONG OR BLADE				
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

CAT. NO.	DIMENSIONS: DIA. X LENGTH		WEIGHT EA.	
	in. x ft.	mm x m	lbs.	kgs
UNIVERSAL W/ DOUBLE PRONG				
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



Double Ended Universal Switch Stick



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)
CAP & THREADED FERRULE		
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)
TWO THREADED FERRULES		
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)
TWO INSULATED HEX FERRULES		
12578HMH	1 1/4" x 6'6" (3.2 cm x 1.98 m)	4 (1.81)
12596HMH	1 1/4" x 8' (3.2 cm x 2.44 m)	4 (1.81)
CAP & UNIVERSAL FERRULE		
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)
RAIN GUARD		
8900	Rain Guard w/ Hose Clamp	0.2 (0.1)

12578HH

15078CH

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 silicate 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)
TOGGLE HANDLE & THREADED FERRULE		
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)
TOGGLE HANDLE & UNIVERSAL FERRULE		
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)
TOGGLE HANDLE & INSULATED HEX FERRULE		
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)
TOGGLE HANDLE & CLAMPSTICK		
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)
8110E	10'6" (3.2m) OAL Toggle Handle Fiberglass Clampstick	7 (3.18)



12578HE



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)
MECHANICAL HAND STICK, FIBERGLASS HANDLE DIAMETER: 1-1/4" (3.2 CM)			
1FGQ	Quick Change	6'6" (1.98m)	4 (1.81)
1FGU	Universal	6'6" (1.98m)	4 (1.81)
101FGQ	Quick Change	8' (2.43 m)	5 (2.27)
101FGU	Universal	8' (2.43 m)	5 (2.27)
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)
2FGU	Universal	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)
2CU	Wire with Universal	-	3 (1.36)
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)
408FGQ	Quick Change	8' (2.43 m)	7 (3.18)
408FGU	Universal	8' (2.43 m)	7 (3.18)
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)
PIGTAIL STICK			
5FGQ	Quick Change	6'6" (1.98 m)	6 (2.72)
5FGU	Universal	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)
1211FGQ	Quick Change	8' (2.43 m)	6 (2.72)
1226FGQ	Quick Change	6'6" (1.98 m)	8 (3.63)
1228FGQ	Quick Change	8' (2.43 m)	8 (3.63)

STRANDED WIRE HEAD ONLY

121CQ	Stranded Wire w/ Quick Change	-	2 (0.91)
122CQ	Stranded Wire w/ Quick Change	-	2 (0.91)

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)





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)
SECTIONALIZER KIT		
1370SL	Set includes: 3 of 1370A, 1 of 1370H, 1 of 1370FB	100 (45.3)
PARTS		
1370A	One Sectionalizer Only, 25 kV, 36" (0.91 m)	12 (0.91)
1370H	Hook with 1/2" Drive	1 (0.45)
1370HR	Hold Down Hook with Ring	1 (0.45)
1370V	Wire Holder, 9/16" (1.43 cm) max. size wire	2 (0.91)
1370FB	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)
INSULATING LINK STICKS							
50012EH	22 (55.9)	12 (30.5)	1 (2.5)	2,500 (1,134)	3 (1.36)	B522 Bag	1 (0.45)
50012EP	22 (55.9)	12 (30.5)	1 (2.5)	2,500 (1,134)	3 (1.36)	B522 Bag	1 (0.45)
5012EH	22 (55.9)	12 (30.5)	1 1/4 (3.2)	2,500 (1,134)	2 (0.91)	B522 Bag	1 (0.45)
5012	22 (55.9)	12 (30.5)	1 1/4 (3.2)	1,500 (682)	2 (0.91)	B522 Bag	1 (0.45)
5012R	22 (55.9)	12 (30.5)	1 1/4 (3.2)	1,500 (682)	2 (0.91)	B522 Bag	1 (0.45)
5112	24 (61.0)	12 (30.5)	1 1/2 (3.8)	2,500 (1,134)	2 (0.91)	B522 Bag	1 (0.45)
2512	28 (71.1)	12 (30.5)	1 (2.5)	10,000 (4,536)	2 (0.91)	B522 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 contaminates such as dirt, tar and grease without harming finish and leaves a thin water-repellent coating.

CAT. NO.	DESCRIPTION	SIZE	WEIGHT oz (g)
HEXAGONAL FERRULES			
44DFG	5/8"-11 - Zinc	1" (2.5 cm)	4 (124)
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)
UNIVERSAL FERRULES			
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)
RIVETS			
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)
HEXAGONAL FERRULE KITS			
44EK001	5/8"-11 - Zinc	1" (2.5 cm)	4 (124)
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)
UNIVERSAL FERRULE KITS			
44UK001	Aluminum with Thumb Screw	1" (2.5 cm)	4 (124)
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)
HANDLE CLEANERS			
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)
CAPS			
C100	1" (2.5 cm) Cap	-	-
C125	1 1/4" (3.2 cm) Cap	-	-
C150	1-1/2" (3.8 cm) Cap	-	-



4EFGM



C150



C125



C100



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)
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1192	1.25 (32 mm) I.D. Tool Holder	3.5 (1.6)
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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)
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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 - 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)
INSULATED RESCUE HOOK		
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)
STATIC DISCHARGE STICK		
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.





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)
FUSED DISCHARGE HOOK		
1930535415Q	Fused Discharge Hook	10 (4.53)
DISCHARGE HOOK		
	GROUND LEAD LENGTH	
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)
RESISTIVE DISCHARGE HOOK/PROBES		
	HANDLE LENGTH	GROUND LEAD LENGTH
19250005	23" (0.58 m)	5' (1.52 m)
192500655	7' (2.13 m)	10' (3.05 m)
19250007	5' (1.52 m)	7' (2.13 m)
ACCESSORIES		
1925SSMC	Mounting Clip, Stainless Steel	3 oz (0.084)
1925MC	Mounting Clip	3 oz (0.084)
1925DMC	Mounting Clip with Hardware	4 oz (0.112)

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
10* 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

* 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*



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)



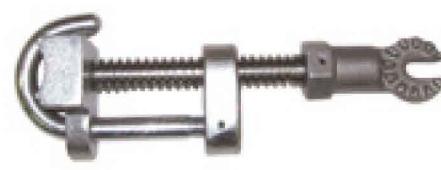
Convertible Adapter

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**

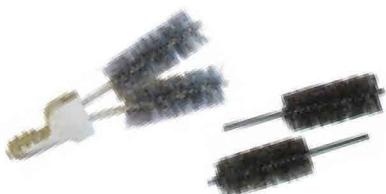
4236 .36 lbs (.2kgs)

**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



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)



12* Stripping Knife 1 lbs. (0.45 kgs)
12S Sheath 4 oz. (0.12 kgs)



7991* Pruning Saw w/ 14" (35.6 cm)
1 lbs. (0.45 kgs)
7991WS Saw Sheath .5 lbs. (0.22 kgs)



4106 Curved Blade Skinning Knife
.4 lbs (.2 kgs)
4107 Replacement Blade .1 lbs (.04 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)



Test Point Cap Seal Cleaner

1520006* 1lbs. (0.45 kgs)

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



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.

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
ARMOR ROD TOOLS		
124*	Armor Rod Applicators	2 (0.91)
1241*	Formed Wire Tools	2 (0.91)
PENTA SOCKET		
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)
JUMPER HEADS WITH THREADED ADAPTERS				
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, "HDT" 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)
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)
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)
9209GA	Liquid Fuse, Grip All	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 **VISE 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)
PARALLEL GROOVE CLAMP TOOL HEAD		
1800CQ	Quick Change Head	3 (1.96)
1800CU	Universal Head	3 (1.96)
1800CQS	Quick Change Head with Top Hook	3 (1.96)
PARALLEL GROOVE CLAMP TOOL SOCKET		
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)
CONNECTOR TOOL VISE TYPE HEAD		
72CQ	Quick Change Head Only	3 (1.96)
72CU	Universal Head Only	3 (1.96)
CONNECTOR TOOL VISE TYPE		
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)

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)
INSULATED ADJUSTABLE WRENCH		
1160	12" (30.5 cm)	1 (0.45)
1161	18" (45.7 cm)	2 (0.91)
1162	24" (61.0 cm)	3 (1.36)
INSULATED RATCHET WRENCH		
4412	12" (30.5 cm)	2 (0.91)
4418	18" (45.7 cm)	3 (1.36)
4436	36" (91.5 cm)	4.5 (2.0)
INSULATED RATCHET WRENCH FOR CLAMP TOP		
44CFG	8" (20.3 cm)	2 (0.91)
TOGGLE HANDLE		
1258HEQ	Quick Change - 8" (20.3 cm)	1 (0.45)





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)
LIVE LINE LEVER CUTTERS		
3004FG	4' (1.22 m)	11 (4.99)
3006FG	6' (1.83 m)	11 (4.99)
3008FG	8' (2.44 m)	11 (4.99)

ALL ALUMINUM & SOFT COPPER CUTTERS

670	24" (61.0 cm)	5 (2.27)
671	30" (76.2 cm)	6 (2.72)
672	36" (91.4 cm)	7 (3.18)

ACSR CUTTERS WITH PERMANENT HEADS

67124ACFG	24" (61.0 cm) 28" (71.1 cm)	5 (2.27)
67130ACFG	30" (76.2 cm) 34" (86.4 cm)	5 (2.27)
67136ACFG	36" (91.4 cm) 40" (102.0 cm)	6 (2.72)

CAT. NO.	MAXIMUM CABLE SIZE			HANDLE Length	WEIGHT lbs. (kgs)
	Copper Power	Aluminum Power	Communication		
SOFT CABLE CUTTER WITH REMOVABLE HEAD					
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.

112

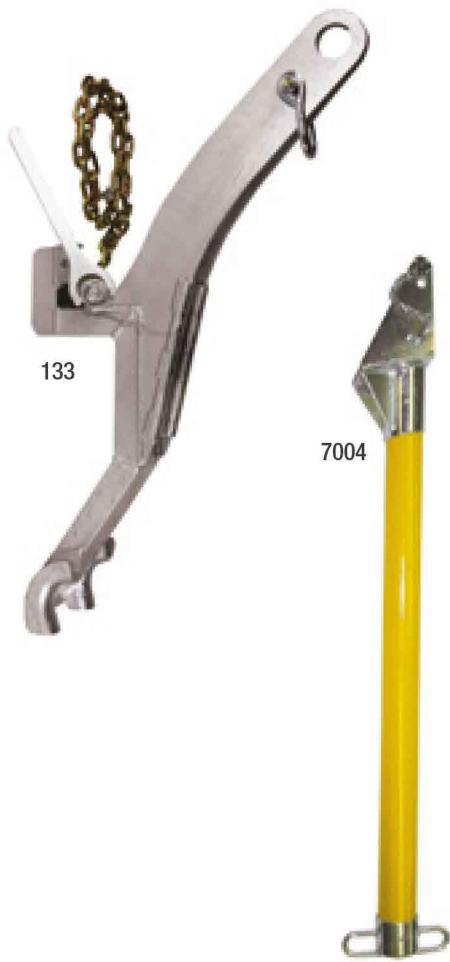
The **TOOL FRAME** is a convenient place to hang tools when they are not in use, has swivel eye allowing the frame to rotate.

The **ROPE-SNIBBING 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.

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)	WLL
TRANSFORMER GIN ASSEMBLY			
112	Transformer Gin Assembly	89 (40.36)	2,500 lbs
TRANSFORMER GIN ASSEMBLY			
100T	Tool Frame	1 (0.45)	-
100TR	Tool Frame with Rope and Snap	2 (0.91)	-
ROPE-SNIBBING BRACKET			
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)	-





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.
CROSS ARM GIN			
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)
TRANSFORMER GIN ASSEMBLY			
133	-	25 (11.34)	2,000
HEAVY DUTY TRANSFORMER GIN ASSEMBLY			
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. Measures 26" (66 cm) long with a 14" (35.6 cm) stroke.

ADAPTERS for 5/8" (1.6 cm) and 3/4" (1.9 cm) ground rods are available.

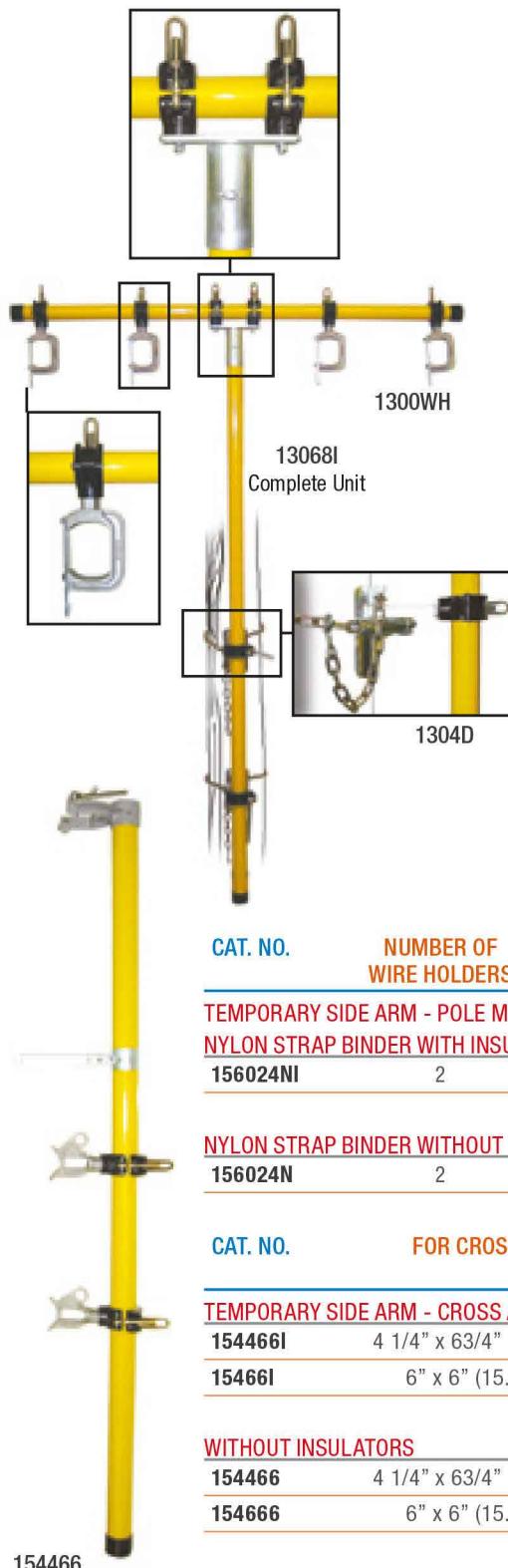
The **FRAMING JACK** is designed to lift the largest poles with ease and safety. The framing jack slips under a pole lying flat on the ground and raises it without danger of it toppling over. Measures 15" (38.1 cm) long. WLL at 2:1 - 3,000 lbs. (1357 kgs).

CAT. NO.	DESCRIPTION	LENGTH	WEIGHT lbs. (kgs)
GROUND ROD DRIVERS			
1350	Ground Rod Driver	60" (1.52 m)	45 (20.40)
1350001	Ground Rod Driver	26" (0.66 m)	15 (6.80)

ADAPTERS			
1350058A	For 5/8" (1.6 cm) Ground Rods	-	1/2 (0.21)
1350034A	For 3/4" (1.9 cm) Ground Rods	-	1/2 (0.21)

FRAMING JACK			
640001	Framing Jack with Ratchet Wrench	-	58 (26.38)
6400B	Ratchet Wrench Only	-	1 (0.45)





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). These units are mounted to the pole using chain binders (Cat. No. 1304D) and are rated for 15 kV without insulators and 35 kV with insulators.

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)	CAT. NO.	WEIGHT lbs. (kgs)
TEMPORARY SIDE ARM - POLE MOUNTED NYLON STRAP BINDER WITH INSULATORS					
156024NI	2	4' (1.22 m)	17 (7.71)	13068I	65 (29.48)
NYLON STRAP BINDER WITHOUT INSULATORS					
156024N	2	4' (1.22 m)	16 (7.26)	13068	65 (29.48)
CAT. NO.	FOR CROSS ARM SIZE	WEIGHT lbs. (kgs)	TEMPORARY TRANSFER ARMS INSULATORS		
154466I	4 1/4" x 63/4" (10.3 x 17.1 cm)	23 (10.43)	1309GIB	1 (0.45)	
15466I	6" x 6" (15.2 x 15.2 cm)	23 (10.43)	TEMPORARY TRANSFER ARMS WITHOUT INSULATORS		
154466	4 1/4" x 63/4" (10.3 x 17.1 cm)	20 (9.07)	1309DI	3 (1.36)	
154666	6" x 6" (15.2 x 15.2 cm)	20 (9.07)	WIRE HANGER WITH INSULATORS		
156024NI			1300WHI	4 (1.81)	
WITHOUT INSULATORS					
154466	4 1/4" x 63/4" (10.3 x 17.1 cm)	20 (9.07)	WIRE HANGER WITHOUT INSULATORS		
154666	6" x 6" (15.2 x 15.2 cm)	20 (9.07)	1300WH	3 (1.36)	
TEMPORARY SIDE ARM WIRE HANGER WITH INSULATORS					
1309DI			1309D	2.5 (1.13)	
TEMPORARY SIDE ARM WIRE HANGER WITHOUT INSULATORS					

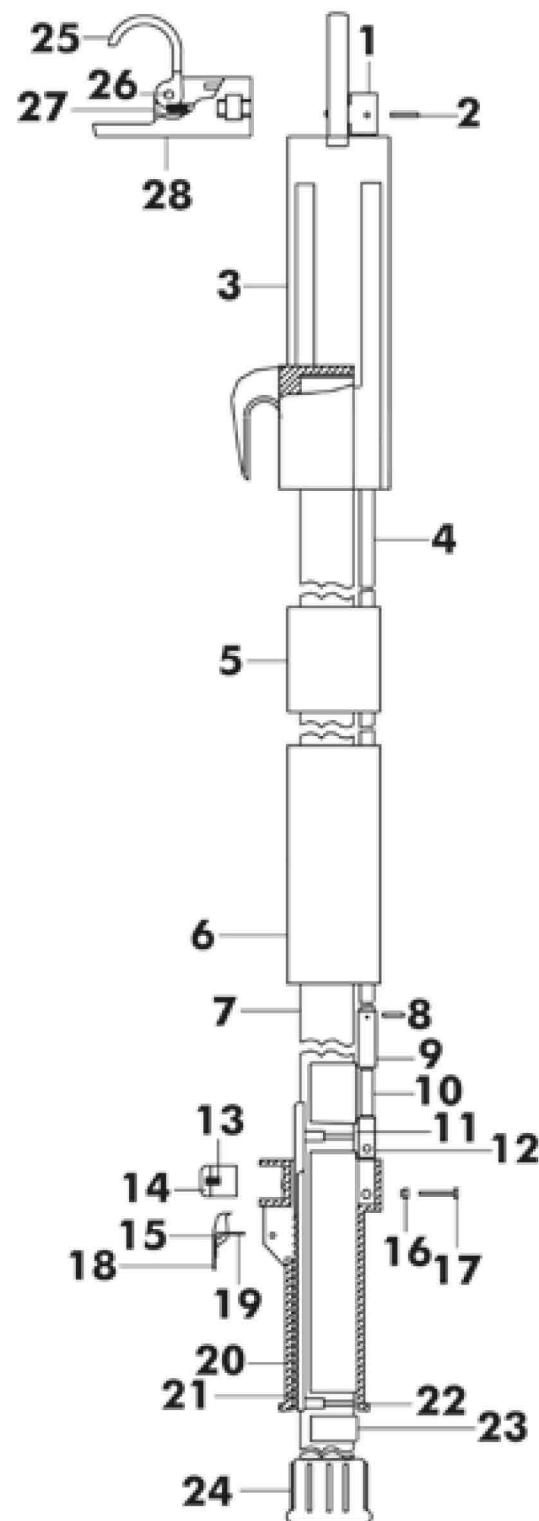


FIBERGLASS HOT CLAMPSTICKS REPAIR PARTS LIST

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	28, 29, 30, 31



INSULATORS



INSULATORS





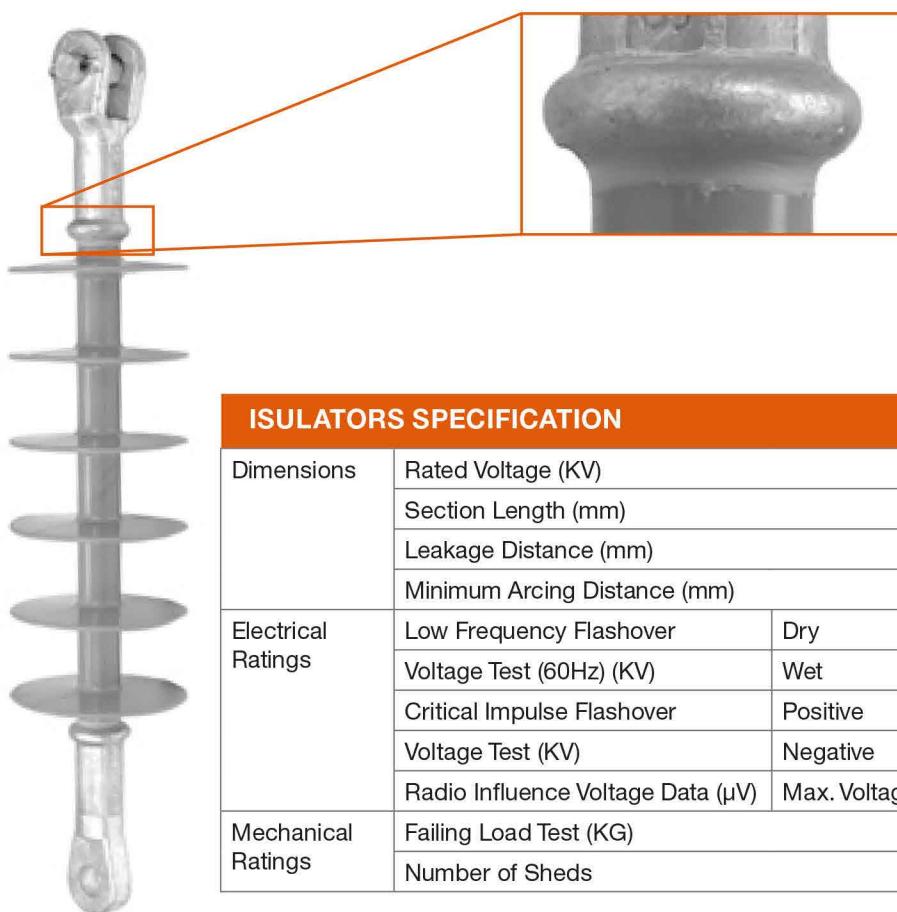
SILICONE COMPOSITE INSULATORS combine the technologies of a fiberglass reinforced rod, metal fittings and our extensive knowledge of elastomeric insulation to produce a high quality composite insulator. Since 1980, thousands of Silicone Insulators have been installed by utilities worldwide in a variety 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
	Low Frequency Flashover	Dry	100	131	166
Electrical Ratings	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
	Failing Load Test (KG)		>7000	>7000	>7000
Mechanical Ratings	Number of Sheds		4	6	8

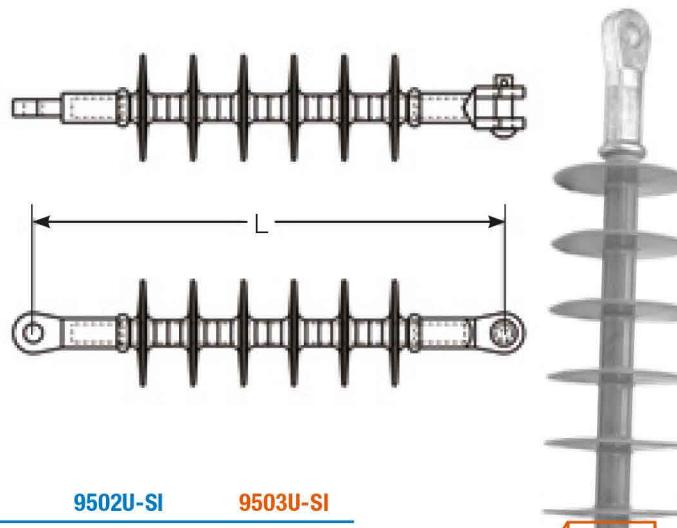
SI SERIES SILICONE INSULATOR

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

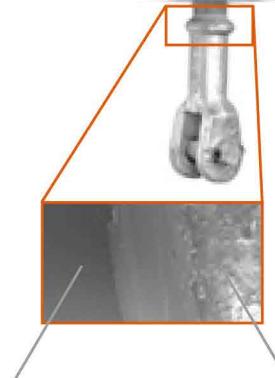
THE SI SERIES OF SILICONE INSULATORS

features a silicone formulation weathershed material, combined with 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.

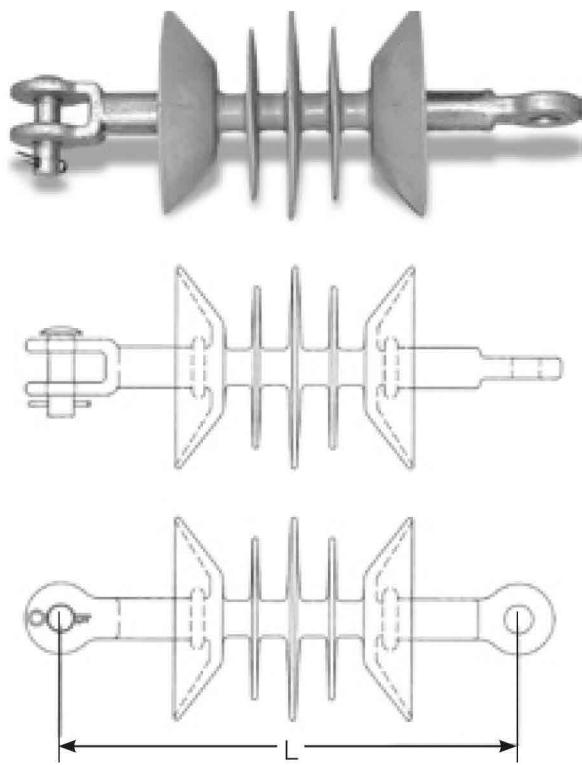
RUS ACCEPTED.



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

9502L-EP

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

VOLTAGE DETECTORS



VOLTAGE DETECTORS



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

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 testers 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 voltage detector attached to a insulating hotstick of a length long enough to keep the worker outside of the arc flash boundary.

The 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 / 240V / 4.2kV / 15kV / 25kV / 35kV / 69kV / 115kV / 230kV	15oz. (.43)
4644	11 x 3.5 (279.4 x 89)	Off / 240V / 4.2kV / 35kV / 69kV / 115kV / 230kV / 345kV / 500kV	15oz. (.43)
4744	11 x 3.5 (279.4 x 89)	Off / Test-240V / Battery / URD:15kV / 25kV / 35kV Overhead: 4.2kV / 15kV / 25kV / 35kV / 46kV / 69kV	15oz. (.43)
4745	11 x 3.5 (279.4 x 89)	Off / Test-240V / Battery / URD:4.8kV / 7.2kV / 16kV Overhead: 2.4/4.2kV / 4.8/8.3kV / 8.0/13.8-7.2 / 12.5kV / 14.4/25-16/27.6kV / 44kV	15oz. (.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	Storage Case	1 (.45)

VOLTAGE DETECTORS

AUDIO / VISUAL

VOLTAGE DETECTORS are used to verify live or de-energized conductors. These testers 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 tester may now be tested in several different ways.

1. Place head as marked against live wire outlet or equivalent above 110V 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 / 240V / 4.2kV / 15kV / 25kV / 35kV / 69kV / 1 15kV / 230kV	15oz. (.43)
4344	11 x 3.5 (279.4 x 89)	Off / 240V / 4.2kV / 35kV / 69kV / 115kV / 230kV / 345kV / 500kV	15oz. (.43)
4444	11 x 3.5 (279.4 x 89)	Off / Test-240V / Battery / URD:15kV / 25kV / 35kV Overhead: 4.2kV / 15kV/25kV / 35kV / 46kV / 69kV	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

Altec





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.

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)
STANDARD TOOL BUCKETS		
30*	12 x 16 (305 x 406)	3.2 (1.45)
40*	8 x 14 (203 x 356)	2 (.91)
oval tool bucket		
50C*	7 x 14 x 10 (1715 x 356 x 254)	2.5 (1.14)
PH55	yellow vinyl hooks for #50C	.5 (.23)
STANDARD TOOL BAGS- 5.5" (140 mm) WIDE		
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)
EXTRA WIDE TOOL BAGS-9.5" (241 mm) WIDE		
2419B	24 x 19 (610 x 483)	4.1 (1.86)
LINE HOSE BAGS		
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)
BLANKET BAG		
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 manufactured by the dipping process using the same formulation of rubber as our lineman's insulating gloves and sleeves. Climber Guards are furnished un-slit to accommodate any length, regular or adjustable climbers. Sold in pairs only.

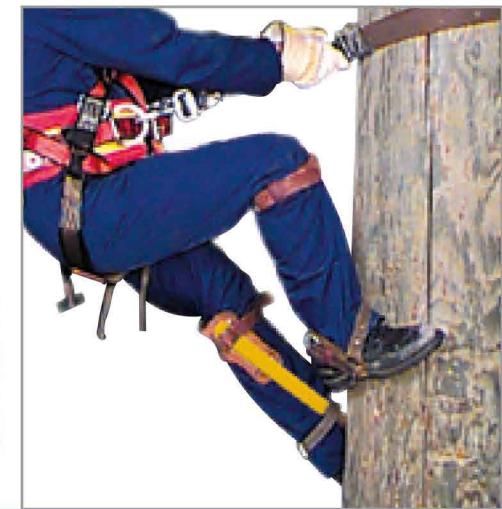
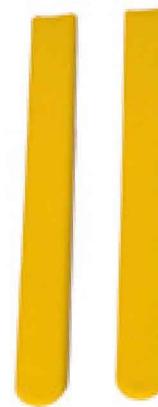
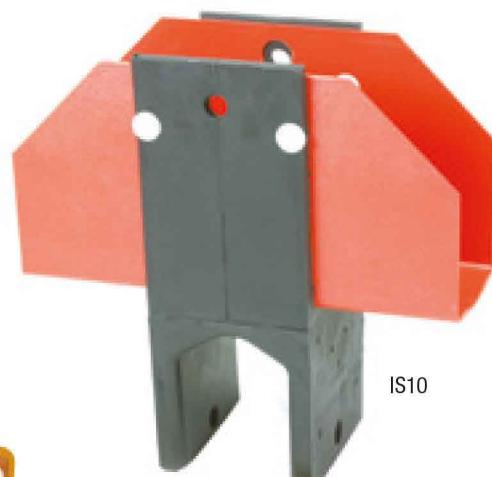
CAT. NO.	DESCRIPTION in. (mm)	WEIGHT EA. lbs. (kgs)
COMPOUND POT SINGLE COMPARTMENT		
PJB1	1 pt. w/ bristle brush, 4.5" x 3.5" (114 x 89)	1.5 (.681)
PJB2	1 pt. w/ wire brush, 4.5" x 3.5 (114 x 114)	1.5 (.681)

CABLE BANDAGES		
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)

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

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

CLIMBER GUARDS		
21187	Sold in pairs	.5 (.23)





42



149H



149S



40HPP



40CH



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. Other lengths are available.

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	LENGTH	APPROX. TENSILE STRENGTH	WEIGHT / REEL
	in. (cm)	ft. (m)	lbs. (kgs)	lbs. (kgs)

POLYPROPYLENE AND POLYESTER (POLYDAC) ROPE

5000E600	1/2 (1.3)	600 (82.9)	5,400 (2,449)	40 (18.1)
6250E600	5/8 (1.6)	600 (82.9)	7,200 (3,266)	56 (25.4)

CAT. NO.	DESCRIPTION	TOTAL ROPE LENGTH	FOR POLE HEIGHT	WEIGHT
		ft. (m)	lbs. (kgs)	lbs. (kgs)

HAND LINE ASSEMBLIES WITH POLYDAC ROPE

1491250	Standard Hand Line, Fixed Sling	100 (30.5)	50 (15.2)	11 (4.99)
1492250	Standard Hand Line, Adjustable 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)

PARTS

42	Hand Line Block (only)	-	-	2 (0.91)
149H	Hook for Hand Line (only)	-	-	1 (0.45)
149S	Swivel Snaps (only)	-	-	1 (0.45)

CAT. NO.	DESCRIPTION	OPENING SIZE	WLL	WEIGHT
		in. (cm)	lbs. (kgs)	lbs. (kgs)

HOOKS

40H	Pointed Hook	1,000 (454)	-	1 (0.45)
40HPP	Pointed Hook	1,000 (454)	-	1 (0.45)
40CH	Blunt Hook	1,000 (454)	-	1 (0.45)
40SHB	Swivel Hook	1,000 (454)	-	1 (0.45)

LINE HOOKS

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 except for CAT. NO. 42PS which is made of high impact plastic. 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)
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BLOCKS

40	Aluminum Hand Line Block	2 (0.91)	1,000 (454)
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)
42PS	Insulated Plastic Block	3 (1.36)	1,000 (454)



40

WOOD SHELL BLOCKS - SINGLE BLOCK WITH SWIVEL HOOK & BECKET

904	4" (10.2 cm)	2 (0.91)	1,000 (454)
905	5" (12.7 cm)	3 (1.36)	1,200 (544)
906	6" (15.2 cm)	5 (2.27)	1,800 (816)



42S

WOOD SHELL BLOCKS - DOUBLE BLOCK WITH FLAT HOOK & BECKET

284	4" (10.2 cm)	3 (1.36)	1,400 (635)
285	5" (12.7 cm)	5 (2.27)	1,800 (816)
286	6" (15.2 cm)	7 (3.17)	2,500 (1,134)

WOOD SHELL BLOCKS - DOUBLE BLOCK WITH FLAT HOOK, BECKET & SWIVEL

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)	7 (3.17)	2,500 (1,134)

WOOD SHELL BLOCKS - TRIPLE BLOCK WITH FLAT HOOK, BECKET & SWIVEL

284A3	4" (10.2 cm)	4 (1.81)	1,800 (816)
285A3	5" (12.7 cm)	7 (3.17)	2,400 (1,089)
286A3	6" (15.2 cm)	11 (4.99)	3,200 (1,451)



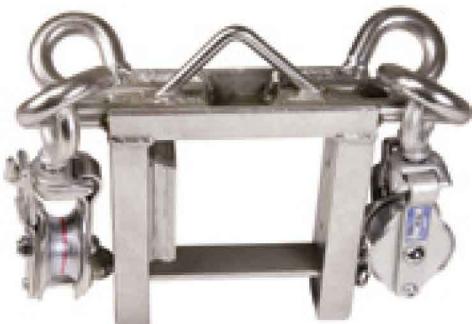
4003SH

NYLON BLOCKS

3101E	Single Block with Swivel Hook & Becket	1 (0.45)	500 (227)
3101W	Single Block with Flat Hook & Becket	1 (0.45)	500 (227)
3102W	Double Block with Flat Hook & Becket	2 (0.91)	1,000 (454)
3103W	Triple Block with Flat Hook & Becket	2 (0.91)	1,200 (544)

SAFETY HOOK

4003SH	Conductor Lifting Hook	6.2 (2.8)	2,000 (907)
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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)
FABRICATED ARM SLINGS		
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)
26H	6 1/8 x 8 (15.6 x 20.3)	2,000 (907)
DOUBLE ARM SLING		
266	With 2 Steel Snatch Blocks	750 (340)

CAT. NO.	DESCRIPTION	WEIGHT lbs. (kgs)
POLE DRAW BAR		
9300	Pole Draw Bar (complete)	60 (27.21)
9301	Heavy Duty Pole Draw Bar	78 (35.37)



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OR114	B-7	RLBPVC1	SU200-45	B-8	VG01B	J-15
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OR125-45	B-5	S1	SU250-6	B-8	VG11033	J-15
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OR150-45C	B-5	SA49R03	MATTING	C-5		
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