

LINE HOSE & COVERS

Q: What is SALCOR® Rubber and why does Salisbury 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. Salisbury's 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, Moses B. Salisbury, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have 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, Salisbury offers the most comprehensive line of protection up to 69 kV in the industry.

NOTE

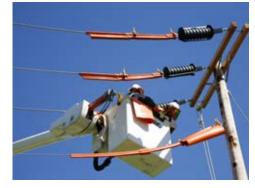
All Salisbury Covers and Protective Equipment are designed for personal protection only. They are not to be used for mechanical protection.

INSULATING LINE HOSE AND COVERS

LINE HOSE SELECTION CHART

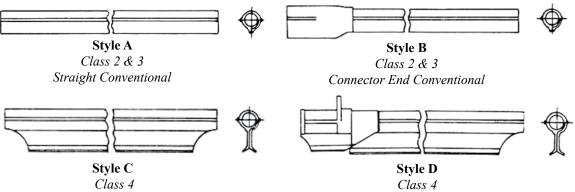
The connector, formed at one end, receives and overlaps the end of an adjoining hose for a distance of 6.5" (165mm).

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.



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

Extended Lip Straight



Extended Lip Connector End

	Line Hose Size Selector Chart							
I.D. of Line Hose	4/0	266,800	Cond 336,400	uctors and D 477,000	iameters in. 556,500	(mm) 795,000	954,000	1,351,500
in. (mm)	.46(12)	.609 (15.5)	.677 (17)	.793 (20)	.858 (22)	1.028 (26)	1.126 (29)	1.34 (35)
1 (25)	20kV Conv	rentional						
1 1/4 (31)	20kV Conv	rentional						
1 1/2 (38)	30kV Conv	rentional						
1 1/2 (38)	40kV SU S	system						
2 (51)	30kV Conv	ventional						
2(51)	40kV SU S	system						
2 1/2 (64)	30kV Conv	rentional						
2 1/2 (64)	40kV SU S	system						

LINE HOSE & CONNECTORS

CONVENTIONAL 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 Salisbury's RIB-GRIP Locking System. The straight or connector end style is available in three sizes: 1" and 1.25" I.D. rated at 17kV, Class 2 and 1.5" I.D. rated at 26.5kV, Class 3.

Straight style SALCOR hose is also available in 2" or 2.5" I.D. rated at Class 3.

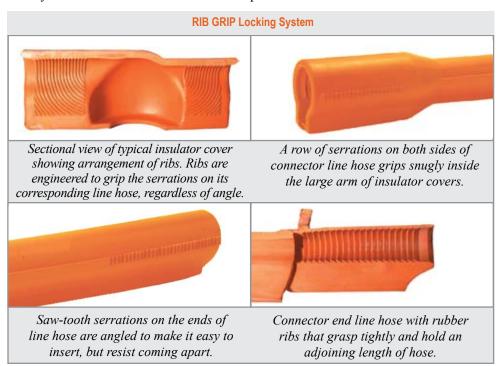
Conventional Line Hose Connectors are made from Type II orange SALCOR and can be used on 1", 1.25", or 1.5" I.D. conventional line hose. To connect 2" and 2.5" I.D. conventional line hose, use the SU System Connector.

The tightest grip in the industry.

The self-locking lip, Salisbury 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, Salisbury 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.



A-4

LINE HOSE & CONNECTORS

CONVENTIONAL SYSTEM

Cat. No.	ASTM Class	Туре	Dimensions I.D. x Length in. (mm)	Weight ea. Ibs.(kgs)
SALCOR® S	traight Line Hose			
OR100-3	2	II	1" x 3' (25 x 915)	3 (1.4)
OR100-45	2	II	1" x 4.5' (25 x 1372)	4 (1.8)
OR100-6	2	II	1" x 6' (25 x 1820)	5.5 (2.5)
OR125-3	2	II	1.25" x 3' (31.5 x 915)	4 (1.8)
OR125-45	2	II	1.25" x 4.5' (31.5 x 1372)	6(2.7)
OR125-6	2	II	1.25" x 6' (31.5 x 1820)	7.5 (3.4)
OR150-3	3	II	1.5" x 3' (40 x 915)	5 (2.3)
OR150-45	3	II	1.5" x 4.5' (40 x 1372)	7 (3.2)
OR150-6	3	II	1.5" x 6' (40 x 1820)	9.5 (4.3)
OR200-3	3	II	2" x 3' (50 x 915)	5.5 (2.5)
OR200-45	3	II	2" x 4.5' (50 x 1372)	8 (3.6)
OR200-6	3	II	2" x 6' (50 x 1820)	11 (5.0)
OR250-3	3	II	2.5" x 3' (63 x 915)	7 (3.2)
OR250-45	3	II	2.5" x 4.5' (63 x 1372)	10.5 (4.8)
OR250-6	3	II	2.5" x 6' (63 x 1820)	14 (6.4)
SALCOR Co	nnector End Line	Hose		
OR100-3C	2	II	1" x 3' (25 x 915)	3.5 (1.6)
OR100-45C	2	II	1" x 4.5' (25 x 1372)	5(2.3)
OR100-6C	2	II	1" x 6' (25 x 1820)	6.5 (2.9)
OR125-3C	2	II	1.25" x 3' (31.5 x 915)	4.5 (2.0)
OR125-45C	2	II	1.25" x 4.5' (31.5 x 1372)	6.5 (2.9)
OR125-6C	2	II	1.25" x 6' (31.5 x 1820)	9(4.1)
OR150-3C	3	II	1.5" x 3' (40 x 915)	6(2.7)
OR150-45C	3	II	1.5" x 4.5' (40 x 1372)	8 (3.6)
OR150-6C	3	II	1.5" x 6' (40 x 1820)	9(4.1)
Line Hose Co	onnectors			
ORC100	2	II	1" x 12" (25.4 x 305)	2.5 (1.1)
ORC125	2	II	1.25" x 12" (32 x 305)	3.5 (1.6)
ORC150	3	II	1.5" x 12" (38 x 305)	3(1.4)

All Line Hose complies with current ASTM D1050 specifications.



 SALISBURY by Honeywell

 101 E. Crossroads Pkwy., Ste. A Bolingbrook, IL 60440 toll free ph (USA):877.406.4501 toll free fax (USA):866.824.4922 ph:630.343.3800
 A-5

PROTECTORS & COVERS

CONVENTIONAL SYSTEM

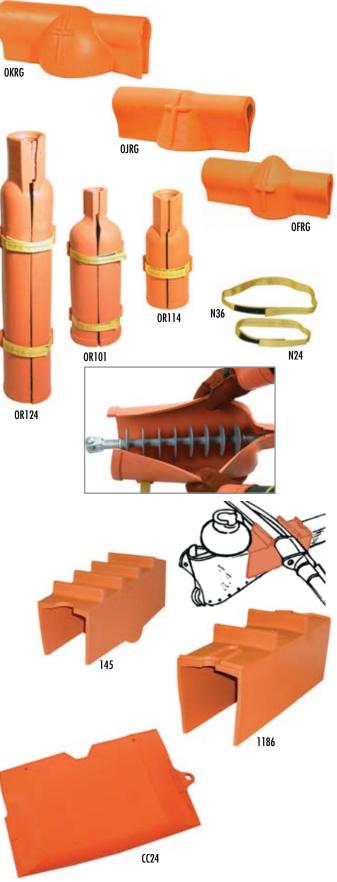
Insulator Covers, in orange, weather resistant Type II SALCOR®, are used with conventional line hose to cover pin-type insulators. All covers feature RIB-GRIP construction to lock to the underside of the insulators. The large diameter arm overlaps the small arm of the adjoining cover on double arm constructions 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.





A-6

PROTECTORS & COVERS

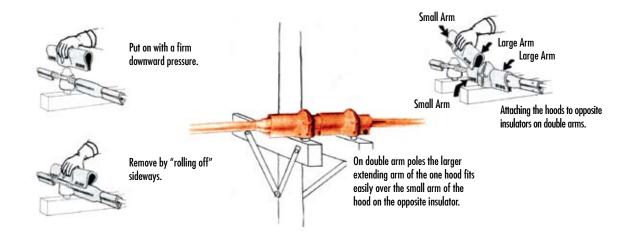
CONVENTIONAL SYSTEM

Cat. No.	Class		ription (mm)	Overall Dimensions in (mm)	Weight ea. Ibs. (kgs)
		for u	ıse with		
INSULATO	R COVERS	Insulator Class	Line Hose Size		
OFRG	2	55-1/2/3	1" (25.4)	14.5" x 5" (368 x 127)	5 (2.3)
OJRG	2	55-4	1"(25.4)	16" x 6.5" (406 x 165)	6(2.7)
OKRG	3	55-5	1.25", 1.5" (32 , 38) 16" x 8" (406 x 203)	7 (3.2)
		for u	ıse with		
DEAD ENI	D PROTECTO	RS Bell Size	Line Hose Size		
OR101	2	2-6"(152.4)	1"(25.4)	6.5" x 23" (165 x 584)	10 (4.6)
OR114	3	1-4.25"(108)	1.5" (38)	4.75" x 14" (121 x 356)	4 (1.8)
OR124	3	2-4.25" (108)	15" (38)	4.75" x 29" (121 x 737)	7.5 (3.4)
CROSS AF	RM COVERS	Use on Cro	oss 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 C	OVERS				
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.



LINE HOSE EXTENDED LIP SU SYSTEM

The **Extended Lip SU System** is the only complete flexible cover-up available for use on voltages through 34.5kV. 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.



SU150-45

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.

Salisbury's 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.

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" (51mm) and 2.5" (64mm) SU System and Conventional Line Hose.



Cat. No.	Dimensions I.D.	in. (mm) Length	Weight ea. Ibs.(kgs)
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 E	ND 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 CO	NNECTORS C	lass 4, Type II AS	TM D1049
Len	gth x Height	Use w/ Line Hose	ə I.D.
	6" (263 x 150)	. ,	2 (.9)
) 2"&2.5" (51&6	4) 3(1.4)
Add Suffix "E" to Catal #2323 Shot Gun Eye A			

Complies with current ASTM D1050 specifications.

۸

A-8

DEAD END PROTECTORS

EXTENDED LIP SU SYSTEM

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" (38mm) 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.









U110

Cat. No.	ASTM Class / Type	Fits Bell Size in. (mm)		is in. (mm) Overall Length		Weight ea. Ibs.(kgs)
DEAD END	PROTECTORS					
OR134 Add Suffix "E" to	4 / 11 Catalog Number to or	3-4.25(108) der with # 2323 Shot G	5 (127) un Eye Assembly (see p	37 (940) age A-13).	Orange	13 (6)
U106	3 / 11	2-6 (152)	7(178)	28.5 (724)	Black	6(2.7)
U110 Add Suffix "E" to	3 / 11 Catalog Number to or	2-10 (254) der with #2340 Shot G	10.5 (267) un Eye Assembly (see p	28.5 (724) agge A-13).	Black	10 (4.5)

All Protectors comply with current ASTM D1049 specifications.

SALISBURY by Honeywell

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" (267mm) in diameter and is used with 2.5" (64mm) 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" (38mm) Class 4 Extended Lip SU System or Conventional Line Hose. The **PTHS** for insulators up to 12" (305mm) and the **PTHL** for insulators up to 16" (406mm) in height. The **PTHL** cover also has external ribs on the ears which secures 2.5" (64mm) 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" (216mm) diameter and 13.8kV post-type insulators. A trim bead permits use on both 35kV and 15kV 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.



INSULATOR COVERS

EXTENDED LIP SU SYSTEM

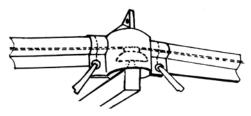


	ASTM ass / Type		Fits Insul. c Dia in (mm)	For Use w/ Insul. Class	Overall Dimensi I.D. body	ions-in.(mm) Height	Weight ea. Ibs. (kgs)
PIN TYP	E Insulato	r Covers					
LRG	4 / II	2.5 (63)	10.5 (263)	55-6	12 (305)	16 (400)	8 (3.6)
MRG Add Suffix "	4 / II E" to Cataloa	1.5-2.5 (40-63) Number to order with #2	8.5 (213) 359 Shot Gun Eve <i>I</i>	Pin Type 55-5 Post Type 13.2kV F Neck Post Type 13.2kV C Neck Assembly (see page A-13).	9 (221)	12.25 (306)	7 (3.2)
UH	3 / 11	1.5 (40)	, 7 (175)	55-1, 2, 3, 4, 5	7.5(184)	12 (300)	6(4.4)
POST T	YPE Insula	tor 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)

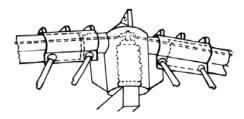
Stirrup Cover

USC 4 / II 1.5 (40) 14 (263) 15.5 (388) 5(2.3)

All Covers comply with current ASTM D1049 specifications.



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



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

CABLE END CAPS & ARRESTER COVERS

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®.

Self-securing Cable End Caps for Underground Distribution are rated at 20kV, 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 arrestor and the line connection. Lightning Arrester Covers can be applied with rubber gloves or a hot stick.

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.

Dimensions in. (mm)

I.D. x Length

1.38" x 10" (35 x 254)

.81" x 6" (21 x 152)

2.25" x 12" (57 x 305)

3.19" x 16" (81 x 406)

4.5 x 15 (113 x 375)

5.5 x 22 (138 x 550)

Type

Ш

Ш

Ш

Ш

Ш

Ш

	173	Self-Securing Cable End Caps
14200034P	14200036P	
For use w/ Cable Size	Weight ea. Ibs. (kgs)	
		_
#4/0 to 500 MCM	.50 (.23)	
#4 to #4/0 AWG	.25 (.1)	
350 to 750 MCM	.75 (.35)	
800 to 1000 MCM	1.5 (.7)	
	3 (1.4)	
-	5 (2.3)	
-	5(2.5)	14200011
		17200011

These Covers comply with current ASTM D1049 specifications.

Cat. No.

117

173

177

178

536A

636A

ASTM

Class

2

2

2

2

4

4

LIGHTNING ARRESTER COVERS

SELF-SECURING CABLE END CAPS

Cat. No.	Description	ASTM F712 Class / Rating kV	Dimensions Length in. / I.D. in. / O.D. in.	Weight Ibs. (kgs)
CLEAR CABLE	COVERS			
14200032P	2" A PVC Cable Cover	2 / 14.6	20 / 2 / 2.38	1.5 (0.68)
14200033P	3" A 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" A PVC Cable Cover	2 / 14.6	20 / 6 / 6.5	5.3 (2.41)
CLEAR PVC STI	RESS CONE COVER			
14200011	-	2 / 14.6	13 / 3 / 3.5	3 (1.36)

SU SYSTEM APPLICATORS

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.







Cat. No.	Description	For Use w/ Hot Stick Style	Weight ea. Ibs.(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)

SALISBURY by Honeywell

101 E. Crossroads Pkwy., Ste. A Bolingbrook, IL 60440 toll free ph (USA):877.406.4501 toll free fax (USA):866.824.4922 ph:630.343.3800 A-13



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.

THE SALISBURY ADVANTAGE

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 on to the terminal. Wide lips extending along the slot provide additional protection over the connection.



360	3 X 6 X 10 (/6 X 152)	(254), 1.25 (32)	LIP Extension	1.4 (ຸ.ວຸ)	
SC6G	3 x 6 x 10 (76 x 152	x 254), 1.25 (32) Lip Extension	1.4 (.5)	