AERIAL CABLE

WEATHER GUARD

PROTECTION FROM RODENTS AND WEATHER

1. GENERAL

1.01 This section provides descriptive information for two types of guards used to protect aerial cable from damage by rodents and/or weather. PTEL 1962 standardizes the use of both types, Squirrel Guard and Wetherguard, for use in Pacific Company and Nevada Bell.

1.02 (Reserved for future use)

1.03 The term "*Weather Guard*", as used in this practice, refers to both types of guards as standardized in PTEL 1962.

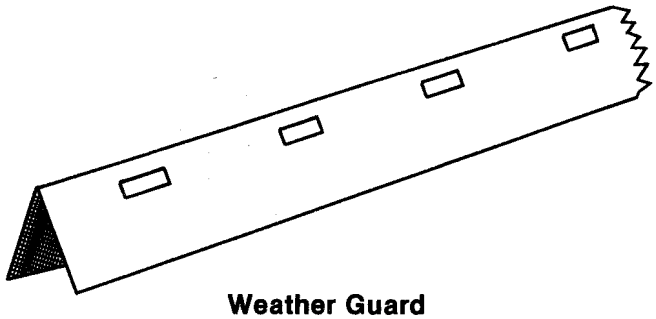
2. DESCRIPTION

2.01 The guard material is presently manufactured by two companies and each can be used for either weather or squirrel protection.

2.02 Material manufactured by the Osmose Company is constructed of black PVC plastic and is available in various widths (see Part 6). The manufacturer refers to this material as "Squirrel Guard".

2.03 Material manufactured by Communications Technology Corporation is constructed of black ABS plastic and is available in various widths (see Part 6). The manufacturer refers to this material as "Wetherguard".

2.04 Both guards, 10 foot in length, are bent at a 90 degree angle to resemble a tent (or trough). There are 1-inch slots located 1-inch from the bend at 1-foot intervals, along the entire length. These slots are used to facilitate the placement of cable ties to hold the guard over cable and strand to protect the cable from rodents and weather. (See Fig. 1.)



Weather Guard
Fig. 1

3. USE

3.01 Weather Guard, when used for squirrel or rodent protection, must be placed to protect all of the cable in tree areas where the squirrels or rodents concentrate. When used in this manner the material both prevents squirrel bites and the intrusion of moisture through sheath breaks.

3.02 This material, when placed for weather protction, should normally be applied in the "T" zone only. (See Fig. 2 for "T" zone placement.) Individual lengths of this material may also be placed over existing trouble splices outside of the "T" zone if local management feels that these points will be subject to moisture intrusion.

4. RESTRICTIONS

4.01 Weather Guard *shall not be placed* in areas subject to cable dancing.

4.02 *Do not attempt short cuts* (eg, leaving supports out of more than every other slot). Short cuts result in warped or damaged guards.

4.03 *Do not* place Weather Guard where 200 degree plus temperatures could melt them.

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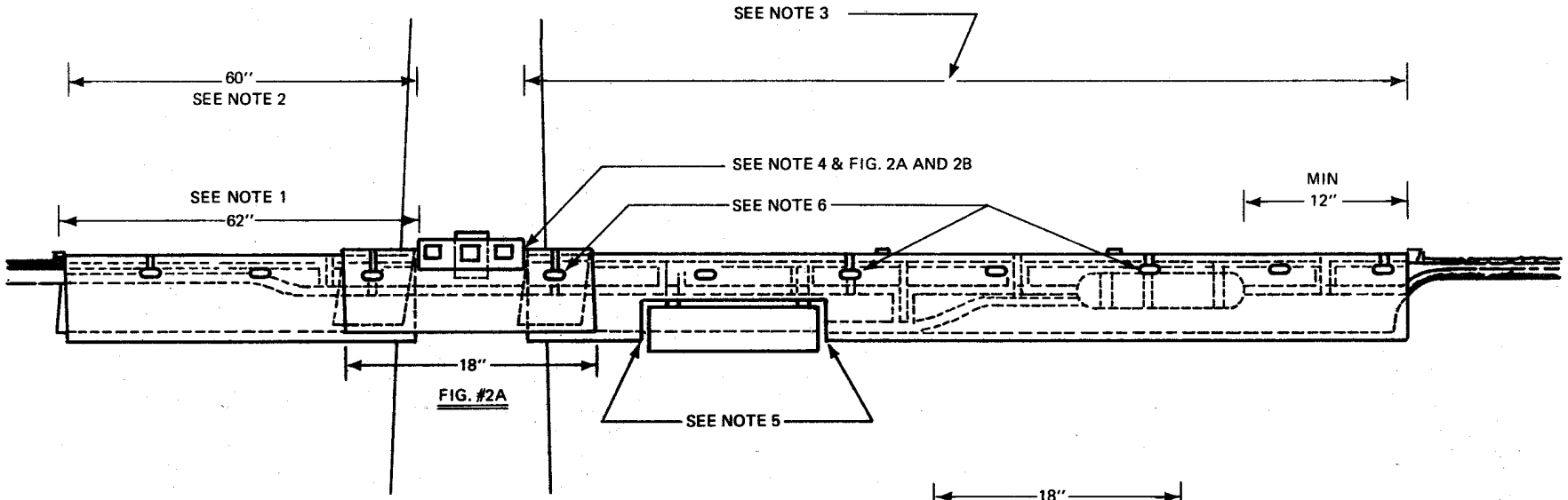


FIG. #2A

NOTES:

1. MOVE "C" LASHING WIRE CLAMP AND TERMINATE LASHING WIRE APPROXIMATELY 62 INCHES FROM END OF SUSPENSION CLAMP.
2. WEATHER GUARD MINIMUM LENGTH 60 INCHES OR 12 INCHES OUT FROM END OF SLEEVE.
3. WEATHER GUARD TO EXTEND MINIMUM OF 60 INCHES FROM THE SUSPENSION CLAMP AND 12 INCHES BEYOND END OF SLEEVE.
4. 18 INCH TOP SECTION CUT OUT TO FIT OVER SUSPENSION BOLT AND CLAMP.
5. CUT OUT SECTION, SIZE AS REQUIRED, TO PERMIT ACCESS TO TERMINAL.
6. ALIGN SLOTS FOR TOP AND BOTTOM SECTIONS AND SECURE WITH "C" LASHED CABLE SUPPORT. PLACE SUPPORTS IN ALTERNATE SLOTS TO END OF EACH SECTION.
7. PLACE GUARD OVER SLEEVES IN SPAN TO EXTEND A MINIMUM OF 12 INCHES BEYOND EACH END.

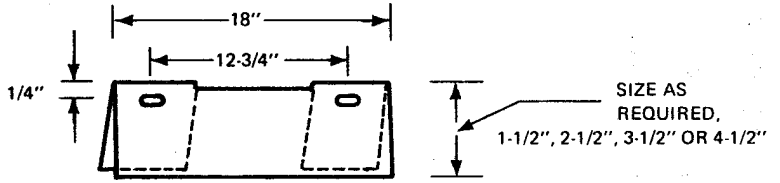
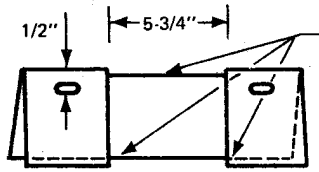


FIG. #2B
FRONT VIEW
TOP SECTION



WITH TABBING SHEARS OR SPLICER'S SCISSORS CUT OUT A SECTION 5-3/4 INCHES WIDE FROM BOTTOM OF ONE SIDE OF GUARD TO TOP AND DOWN OPPOSITE SIDE 1/2-INCH TO PERMIT 18 INCH SECTION TO FIT OVER SUSPENSION BOLT AND CLAMP.

FIG. #2C
REAR VIEW
TOP SECTION

"T" Zone Placement Of Weather Guard
Fig. 2

5. PLACEMENT

5.01 Placement of this material for either weather or squirrel protection over large areas in a planned program is most often accomplished through outside contract. The placement process must be closely administered by Pacific Company management personnel for reasons as stated in 4.01, 4.02, and 4.03, and because of the marginal aesthetic quality of the material.

5.02 Engineers will furnish a drawing showing the areas to be protected.

5.03 The Cable Maintenance force may elect to have various sizes of Weather Guard on hand to apply to a temporary splice or to a midspan splice on the completion of a trouble splice. In cases of application to single locations, or in application to several locations over a small area, economics will probably warrant that placement be accomplished by our own craft personnel.

5.04 Weather Guard may be installed by one individual using a ladder or an aerial lift truck.

5.05 The guards may be readily trimmed with B tabbing shears where standard lengths are too long or where notching for span clamps is required.

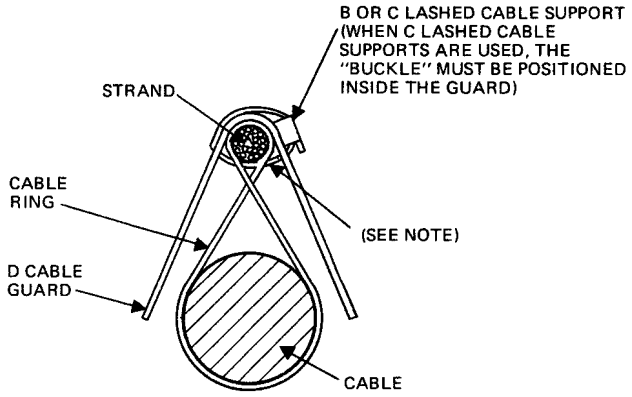
Note: In colder temperatures, the Weather Guard will be less flexible and more difficult to trim. Therefore, guards should be placed when temperatures are above 20 degrees Fahrenheit.

5.06 Install Weather Guard in accordance with Fig. 2 and 3. Place B or C lashed cable supports in slots to secure guard to cable strand. A minimum of five supports *must* be used per 10 foot section of Weather Guard.

5.07 Figures 4, 5, 6, and 7 illustrate the placement of Weather Guard on various combinations of cables.

6. ORDERING PROCEDURES

6.01 Weather Guard orders are to be placed through the Regional Procurement Operations (RPO) Coordinators per instructions covered in System Instruction (SI) 60, Section 2, Supplement 1.



NOTE: WHEN USED WITH LASHED CABLE THE SUPPORTS ARE PLACED THROUGH THE SLOTS AND *UNDER* THE CABLE.

Weather Guard Installed on Ring Supported Cable
Fig. 3

6.02 *"Squirrel Guard"* manufacturer/ordering information.

Osmose Company
980 Ellicott Street
Buffalo, NY 14209

Nomenclature: Guard, Cable Squirrel, "Squirrel Guard"

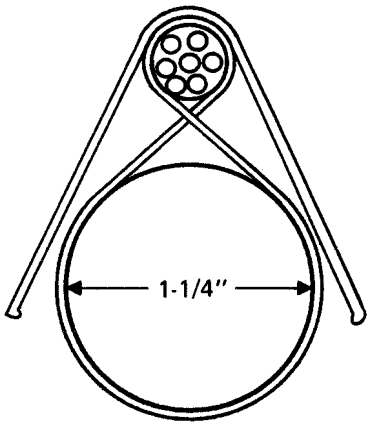
A 4519 FA-0023
200 feet per package
Widths (inches): 1-1/2, 2-1/2, and 3-1/4

6.03 *"Wetherguard"* manufacturer/ordering information.

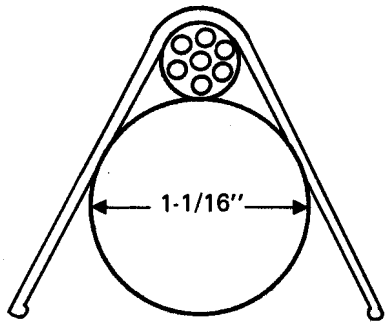
Communications Technology Corporation
2237 Colby Avenue
Los Angeles, CA 90064

Nomenclature: Guard, Cable Squirrel, "Wetherguard"

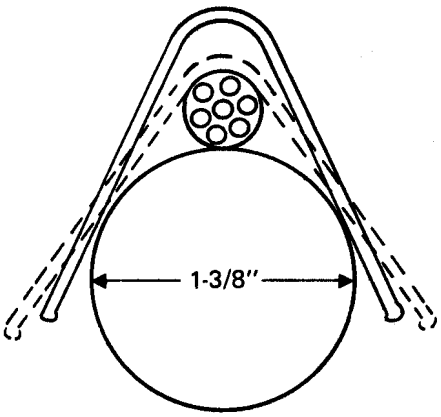
A 4519 FA-0022
200 feet per package
Widths (inches): C3216 1-1/2
C3217 2-1/2
C3219 3-1/2
C3218 4-1/2



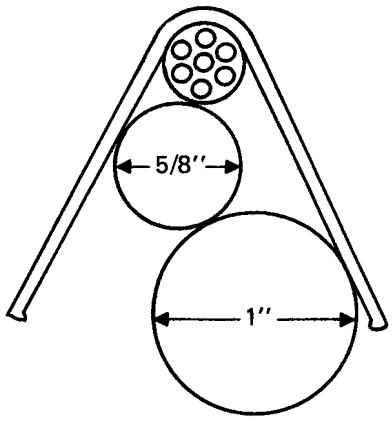
ACCOMMODATES UP TO 1-1/4 INCH DIAMETER *RINGED* CABLE



ACCOMMODATES UP TO 1-1/16 INCH DIAMETER *LASHED* CABLE

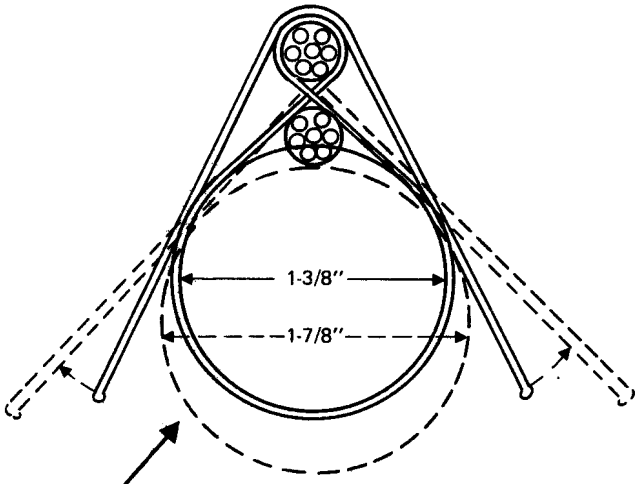


ACCOMMODATES UP TO 1-3/8 INCH *LASHED* CABLE BY PULLING APEX OF WEATHER GUARD DOWN TOWARD HANGER WHEN PLACING CABLE TIES OR SUPPORTS.

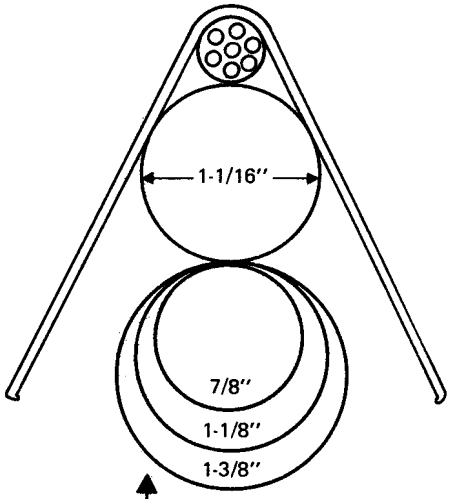


ACCOMMODATES SEVERAL *DOUBLE LASHED* CABLE COMBINATIONS. A TYPICAL CONFIGURATION IS SHOWN.

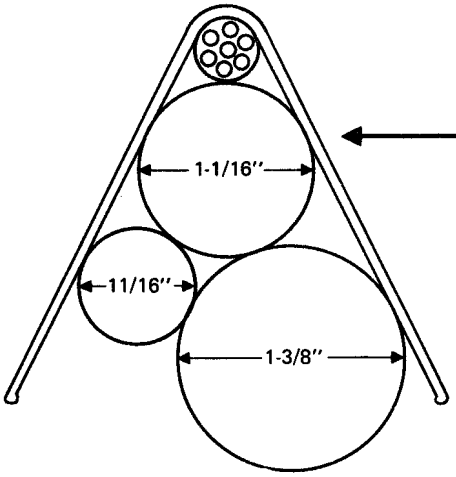
Typical Aerial Cable Configurations
Protected With 1-1/2 Inch Width Weather Guard
Fig. 4



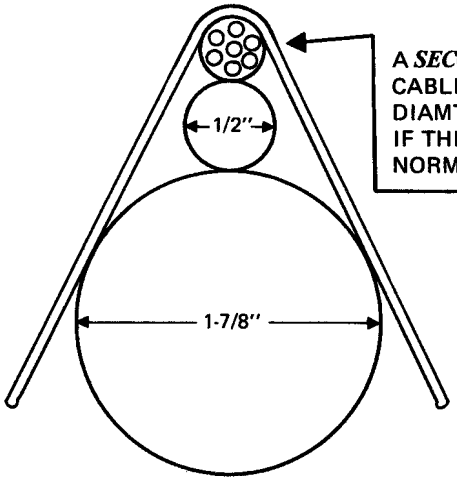
ACCOMMODATES UP TO 1-7/8 INCH DIAMETER *RINGED* CABLE (1-3/8 INCH SHOWN). WILL ALSO ACCOMMODATE UP TO 1-7/8 INCH *LASHED* CABLE (DOTTED LINES) BY PULLING APEX OF WEATHER GUARD DOWN TOWARD HANGER WHEN INSTALLING CABLE TIES OR SUPPORTS.



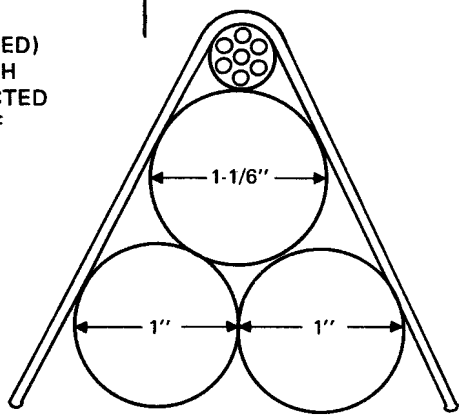
WITH UP TO 1-1/16 INCH DIAMETER *FIRST* CABLE, A SECOND (DOUBLE LASHED) OF UP TO 1-3/8 INCH DIAMETER CAN BE PROTECTED.



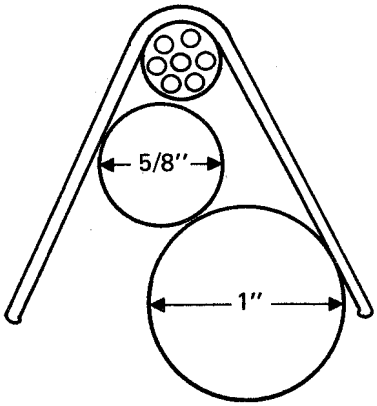
MANY *TRIPLE LASHED* CABLE CONFIGURATIONS CAN BE PROTECTED WITH 2-1/2 INCH WEATHER GUARD. TWO TYPICAL ARE SHOWN.



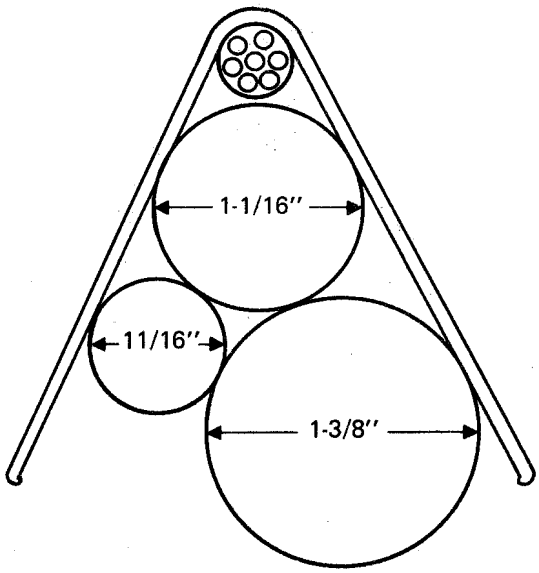
A *SECOND* (DOUBLE LASHED) CABLE OF UP TO 1-7/8 INCH DIAMTER CAN BE PROTECTED IF THE *FIRST* CABLE IS OF NORMAL SIZE.



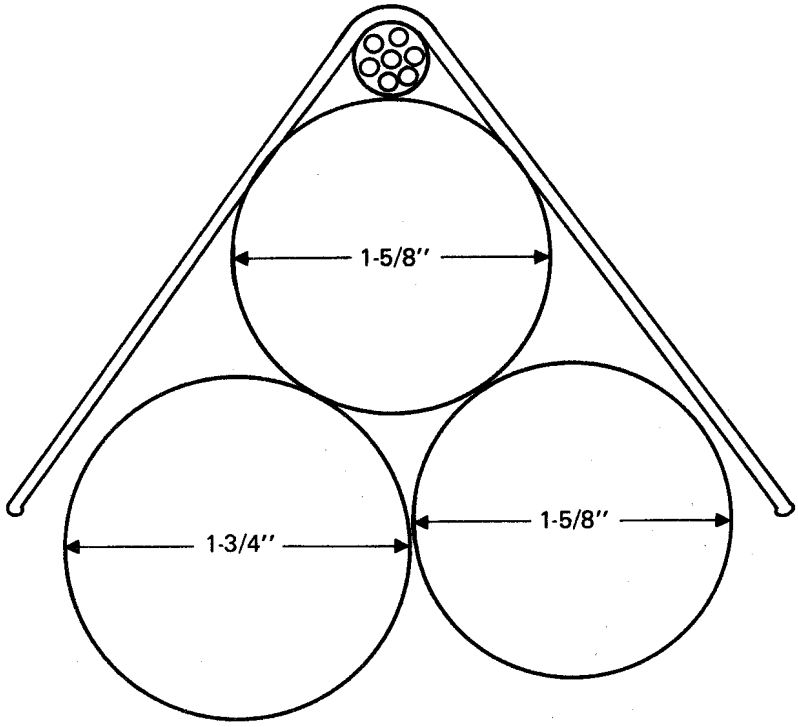
Typical Aerial Cable Configurations
Protected With 2-1/2 Inch Width Weather Guard
Fig. 5



1-1/2 INCH WIDTH WEATHER GUARD ACCOMMODATES SEVERAL *DOUBLE LASHED* CABLE COMBINATIONS.



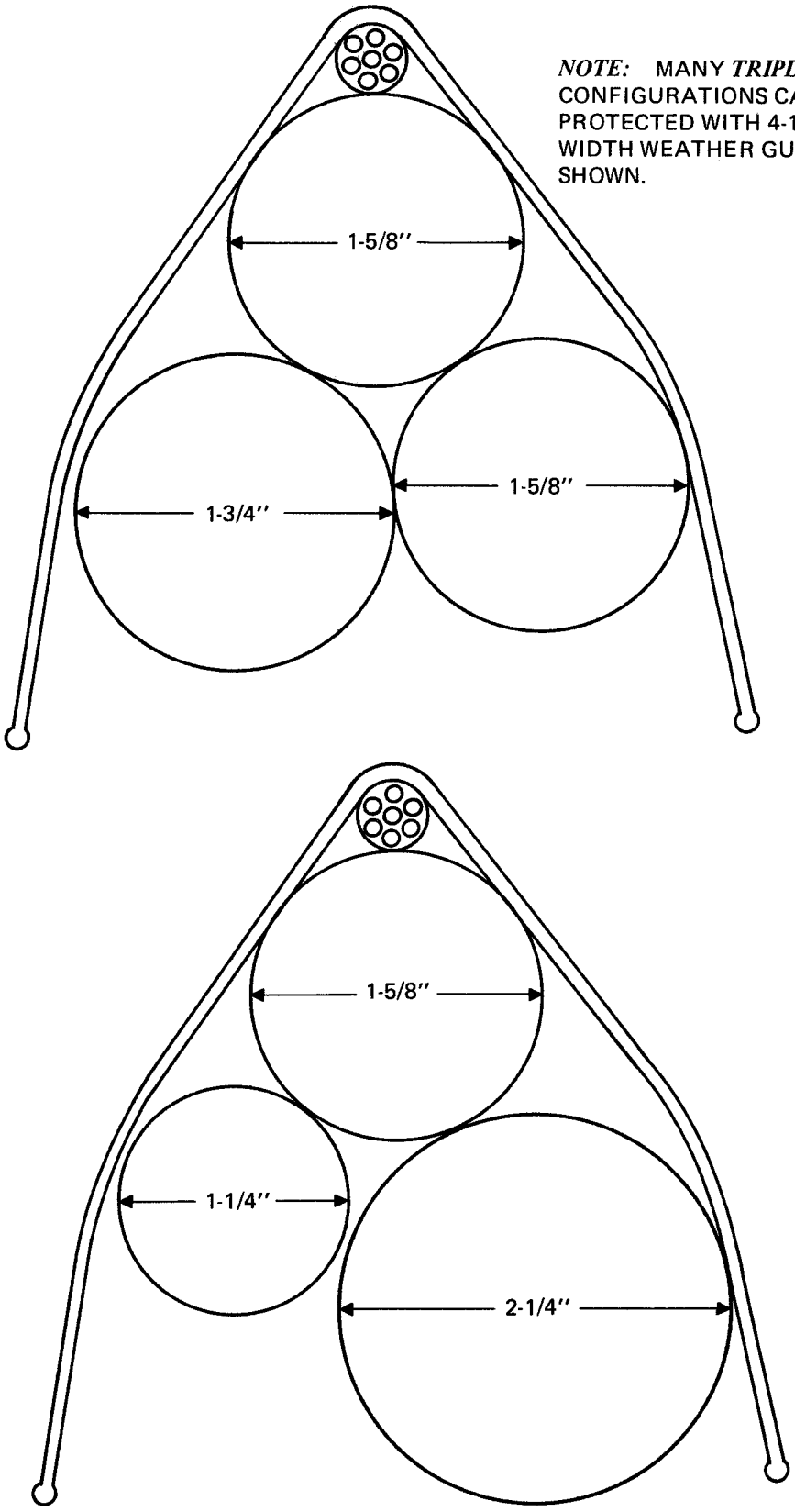
2-1/2 INCH WIDTH WEATHER GUARD ACCOMMODATES MANY *TRIPLE LASHED* CABLE COMBINATIONS.



3-1/4" INCH WIDTH WEATHER GUARD ACCOMMONDATES MANY *TRIPLE LASHED* COMBINATIONS.

Typical Aerial Cable Configurations Protected With Weather Guard
Fig. 6

NOTE: MANY *TRIPLE LASHED* CONFIGURATIONS CAN BE PROTECTED WITH 4-1/2 INCH WIDTH WEATHER GUARD AS SHOWN.



Typical Aerial Cable Configurations
Protected With 4-1/2 Inch Width Weather Guard
Fig. 7