# COAX CABLE
# PREPARATION OF COAX CABLE FOR TERMINATION

CONTENTS



## 1. GENERAL

1.1 This section covers the general requirements for the preparation of coaxial type cable having a diameter range of .14 inch up through and including .30 inch using the R-4877 Coax Cable Stripper.

1.2 The information provided in this section is intended to be used as a supplement to Handbook 9, Section 730.

## 2. INSTALLING EQUIPMENT

2.1 In addition to the tools and supplies ordinarily required for butting and stripping of coaxial cables the following is required.

R-4877 Coax Cable Stripper

## 3. TOOL ASSEMBLY

3.1 The R-4877 Stripper comes in a carrying case consisting of:

(2) Tool Body - detail 1 and 2
(3) Cassettes - detail 3
(2) V Block Sets - detail 4 (3V-Blocks per set)
(2) Blade Adjustment key - detail 5 (allen wrench)

NOTE: Figure 1 shows all items which make detail 1 or detail 2 a complete stripping tool

FIGURE 1

3.2 Detail 1 and 2 comes assembled with a V-Block only, the cassette must be assembled and adjusted before any stripping can be done.

3.3 Open Tool Body detail 1 and 2 by rotating Locking Latch downward. See Figure 2.

FIGURE 2

3.4 Insert detail 3 Cassette Yellow into Tool Body (detail 1 and 2), see Figure 3.

NOTE: Each cassette contains (4) four set of cutting blades which allow for rotation and flipping of cassette. The cassette is numbered 1 to 4, assemble cassette at position 1.

FIGURE 3

3.41 Detail 3 cassette is a replacement item, it has a life expectancy of approximately 500 cables and can be ordered from Central Stockkeeping as part number 13487703 (comcode 402651889.)

NOTE: Other than a defective part, detail 3 should be the only detail needing replacement.

3.5 V-Block assembly - There are two sets of V-Blocks, one set for detail 1 and 2. The V-Blocks are color coded Red, Blue and Yellow which are capable of handling cable diameter from .14 inch up through .30 inch.

| V-BLOCK COLOR CODE | CABLE RANGE |
|---|---|
| RED | .14 to .20 |
| BLUE | .20 to .25 |
| YELLOW | .25 to .30 |

3.6 Select proper V-Block as indicated above. Note that stripping tool comes assembled with Blue V-Block. If Red or Yellow V-Block is required, hold stripping tool in open position so that V-Block is facing you and lift V-Block in a clockwise motion so that the spring leads do not leave the V-Block. Slip the desired V-Block under existing V-Block and into position, remove existing V-Block, springs will fall into position on new V-Block.

3.7 To remove or rotate cassette, open tool by rotating LOCKING LATCH downward. On bottom of tool there is a hole (approx 9/32) which is used to remove cassette. Use whatever is available that will fit into hole and push cassette out, see Figure 4.

FIGURE 4

## 4. CASSETTE BLADE ADJUSTMENT

4.1 On bottom side of stripping tools there are (2) two adjustment holes, see Figure 5. These holes are not stamped A & B, however, for identification purpose will be referred to as A & B. A is left, B is right.

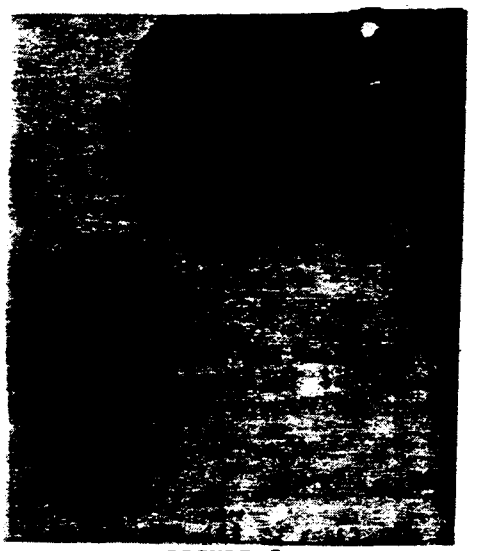

FIGURE 5

4.2 Back off (counterclockwise) using Detail 5 both A & B screws on Det 1 & 2 until you feel them tighten or bend up. Note that the screws will be approximately flush - refer to Table A for blade adjustment.

4.3 Table A will bring the blades within 1/4 turn of final adjustment. The installer will be required to fine tune blade adjustment. A practice piece of cable should be used for final adjustment.

4.4 Once the stripping tool has been set for a specific type of cable no additional adjustments are necessary. Rotating or flipping of the cassette does not require blade readjustment.

## 5. CABLE PREPARATION

5.1 The stripping tool comes as Detail 1 and Detail 2. Detail 1 is used to remove the conductor dielectric, whereas Detail 2 removes the outer jacket and shield. Detail 2 will always give a shield length of 1/2 inch.

NOTE: The dielectric length is a length that varies according to the specific cable and its application. This varied length will be the responsibility of the installer and can be obtained by its placement in the stripping tool detail 2.

5.2 Prepare cable as follows:

a) Open stripping tool, detail 1, by rotating locking latch downward.

b) Insert cable in stripping tool so that cable extends beyond tool, see Fig 6, this will give a center conductor length longer than necessary but can be trimmed to dimension required.

NOTE: It is important that cable must always enter stripping tool from left to right. Before closing tool, have slide mechanism on position 5.

FIGURE 6

c) Refer to Table A for position setting of Stripping Tool Slide. Note that more than one setting of the Slide mechanism is required for each cut, also at each position of the Slide, the stripping tool will require 4 or 5 rotations or 360 degree turns.

d) At the end of the final position, the Slide mechanism should be backed off one position and pull stripping tool off - this backing off one position removes the cutting blades from against the cable while the pulling of the tool from the cable confines the cut portion of the cable in the tool for easy disposal. The results of cut should be as shown in Figure 7.

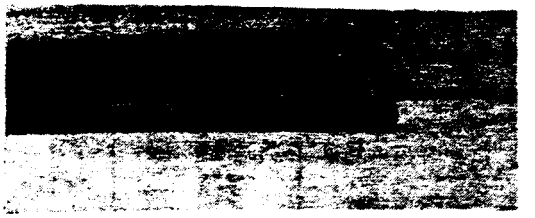

FIGURE 7

e) Set slide on Detail 2 tool as speciified in Table A.

f) Mark cable for Dielectric Length as specified on job order and insert cable in Detail 2 stripping tool so that the mark is on the right hand blade, see Figure 8. Rotate tool as specified in paragraph 5.2(c) and (d).

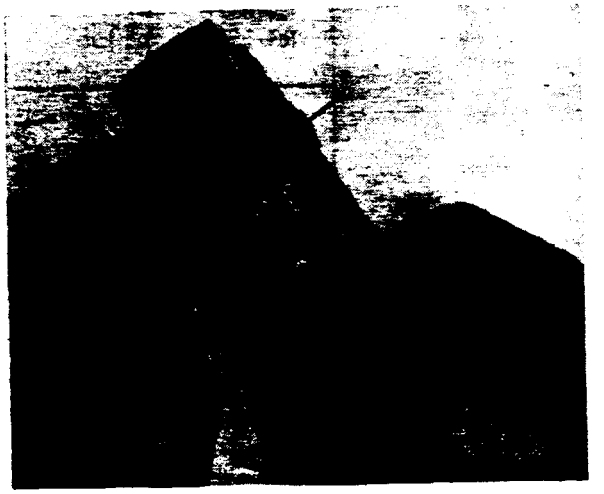

FIGURE 8

g) Results of stripping should agree with Figure 9.

FIGURE 9

h) Cut center conductor to length required.

Table A

| Cable Type | V Block | Set Screws Turns | | Slide Sequence Setting | Detail |
|---|---|---|---|---|---|
| | | A | B | | |
| 724 | Yellow | 4 3/4 | 0 | 5,4 | 1 |
| | | 1 | 2 | 5,4 | 2 |
| 728 | Yellow | 3 1/2 | 0 | 5,4,3 | 1 |
| | | 3/4 | 1 1/2 | 5,4 | 2 |
| 730 | Yellow | 4 1/2 | 0 | 3,1 | 1 |
| | | 1 3/4 | 2 | 3,1 | 2 |
| RG-58 | Blue | 3 1/2 | 0 | 4,2 | 1 |
| | | 1 | 3 1/2 | 4,2 | 2 |
| RG-59/U RG-59B/U | Blue | 3 1/4 | 0 | 5,4 | 1 |
| | | 1 1/4 | 2 3/4 | 5,4 | 2 |
| RG-62A/U | Blue | 3 1/4 | 0 | 5,4 | 1 |
| | | 1 1/4 | 2 3/4 | 5,4 | 2 |
| RG-223/U | Blue | 3 | 0 | 4,2,1 | 1 |
| | | 1 3/4 | 3 1/4 | 4,3 | 2 |
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