

BELL SYSTEM PRACTICES

**Outside Plant Construction
and Maintenance**

SECTION G61.640.1

**Issue 1, January, 1952
AT&T Co Standard**

**CABLE SPLICING—CONNECTING AND
TERMINATING FLEXIBLE SHIELDED
VIDEO CABLE**

Contents	Page
1. General	1
2. Connecting Flexible Shielded Video Cable to 38A Cable Terminal	1
3. Connecting Flexible Cable to Old Type 38A Terminal	4
4. Terminating Flexible Shielded Video Cable in KS-14324 Jack	4
5. Arrangement of Cables in 383A Apparatus Case ..	7

1. GENERAL

1.01 This section describes the method of connecting flexible shielded video cables to a 38A Cable Terminal when cross-connection facilities are not needed. The section also describes the method used in terminating flexible shielded video cables in KS-14324 jacks inside the 383A Apparatus Case when cross-connection facilities are required, and the arrangement of the cables inside the 383A Apparatus Case.

1.02 The newer flexible shielded video cables have two layers of shielding braid while the older cables have only one layer of shielding braid. The method of connecting the newer flexible shielded video cables to the 38A terminal covered in Part 2 can also be used with the older types of cable.

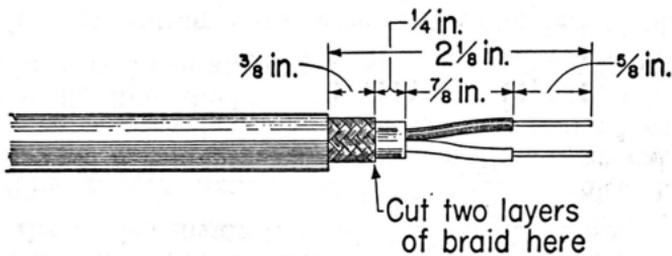
1.03 The mounting arrangements for the 38A Cable Terminal are covered in another section of the Practices.

**2. CONNECTING FLEXIBLE SHIELDED VIDEO CABLE
TO 38A CABLE TERMINAL**

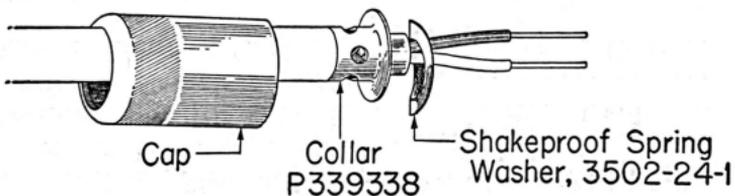
2.01 Connect flexible shielded video cables to the video pair terminations in the 38A Cable Terminal as follows. Care should be taken to leave sufficient length of flexible cable

at the terminal to permit changing the flexible cable to another pair on the terminal or to other terminals if more than one terminal is mounted in a group.

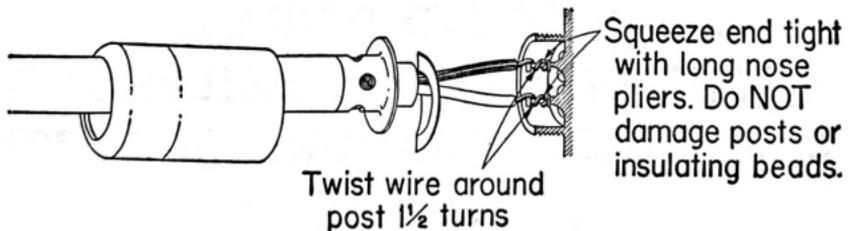
2.02 Prepare the end of the flexible shielded video cable as illustrated below:

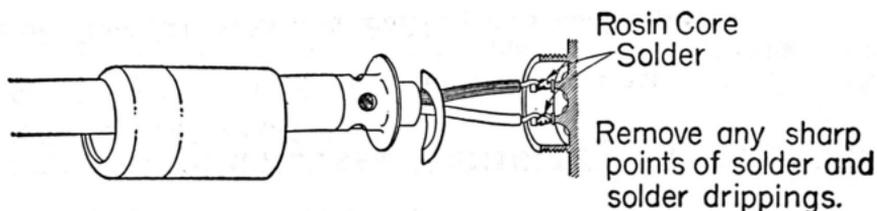


2.03 Place the cap over the end of the cable, the collar over the exposed braid and the washer over the insulated wires as illustrated below.

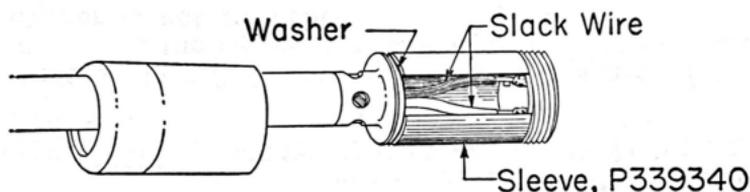


2.04 Connect the wires to the soldering posts of the 38A terminal, as illustrated below:

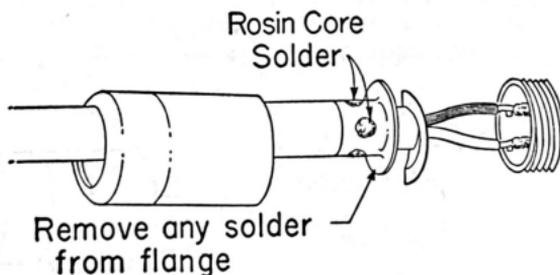




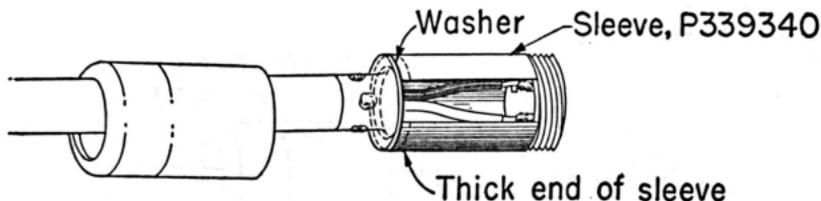
2.05 With the collar touching the cut end of the outer jacket hold the split sleeve between the collar and the terminal ring, as illustrated, to make sure that the video pair will be slack when the housing is assembled. If the wires are taut, trim back the outer jacket a little and move the collar. Then remove the split sleeve.



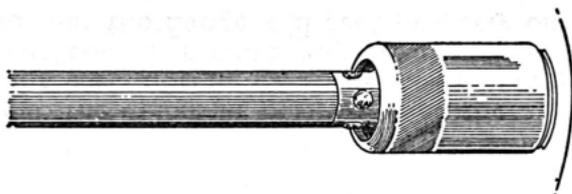
2.06 Solder the collar in position over the shielding braid, taking care not to overheat the polyethylene. When the solder has cooled, remove any solder from the flange of the collar so that the flange will seat properly on the cap.



2.07 Place the P339340 sleeve in position with the washer between the thick end of the split sleeve and the collar, as illustrated below.



2.08 Slide the cap over this assembly and tighten by hand until secure, as illustrated below. A tight connection is essential to ground the shield of the flexible shielded video cable to the terminal faceplate.



3. CONNECTING FLEXIBLE CABLE TO OLD TYPE 38A TERMINAL

3.01 In the older 38A terminals, the collars are of smaller diameter, the sleeve does not have a thick end and the spring washer is not furnished.

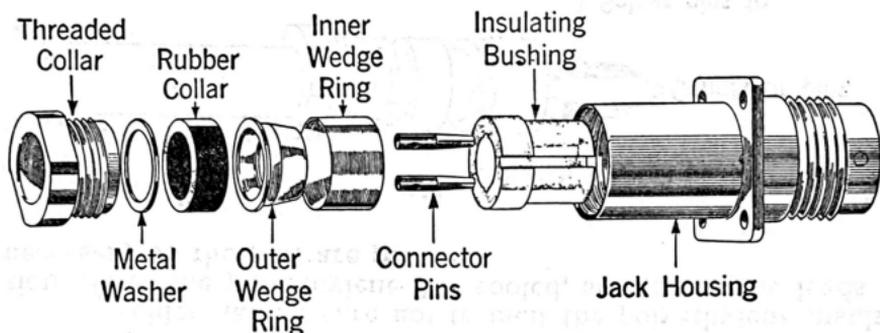
3.02 If specified, the older terminals can be modified by use of P339338 collars, P339340 sleeves and Shakeproof Spring Washers, 3502-24-1. The connections can then be made as outlined in Part 2.

3.03 If the terminal is not to be modified, make the connection in the manner outlined in Part 2, omitting the use of the washer. With flexible shielded video cables having two layers of shielding braid, it may be necessary to trim off the outer shielding braid (see Paragraph 2.02), and slide the collar over only the inner braid.

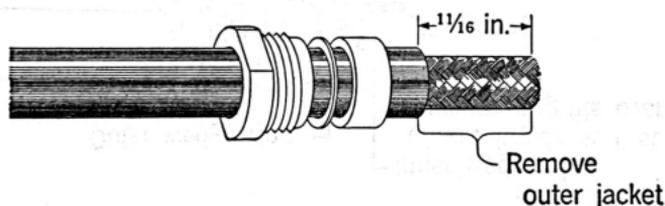
4. TERMINATING FLEXIBLE SHIELDED VIDEO CABLE IN KS-14324 JACK

4.01 Flexible shielded video cables are connected to the 38A cable terminal in the 383A apparatus case through the use of KS-14324 jacks and P3AG patch cords.

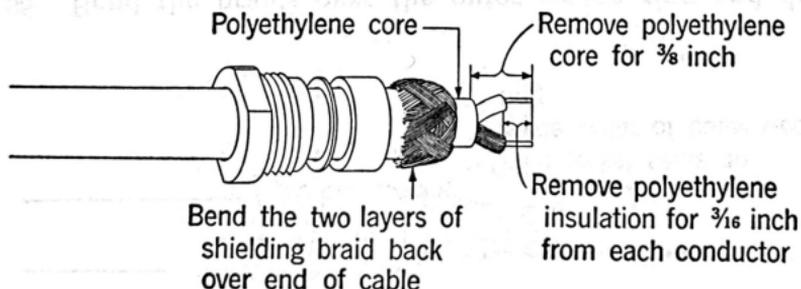
4.02 An exploded view of the KS-14324 jack is shown below.



4.03 To terminate a flexible shielded video cable in a KS-14324 jack, place the threaded collar, the metal washer and the rubber collar over the end of the flexible shielded video cable and remove the outer jacket of the cable, as illustrated below.

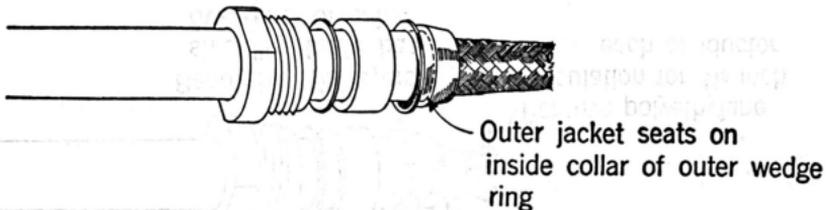


4.04 Bend the two layers of shielding braid back from the end of the cable and prepare the conductors as illustrated below.

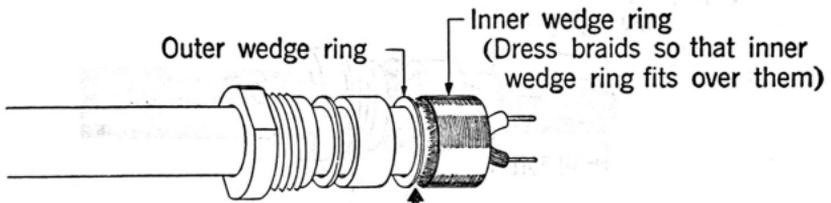


4.05 Return the shielding braids to their normal position and then compress them sufficiently to slide the outer wedge ring over the braids. Slide the outer wedge ring over

the braids and over the outer jacket of the cable until the jacket seats on the inside collar of the wedge ring, as illustrated below.

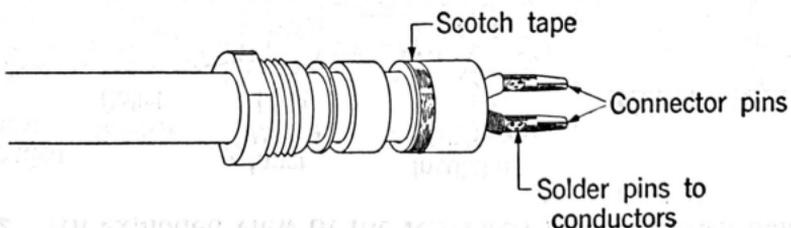


4.06 Bend the braids over the outer wedge ring and dress the braids against the surface of the wedge ring. Then fit the inner wedge ring over the braids as illustrated below. Cut off the ends of the braids so they do not project beyond the edge of the outer wedge ring.

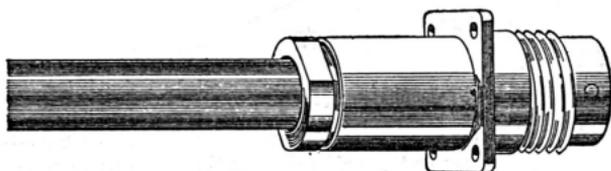
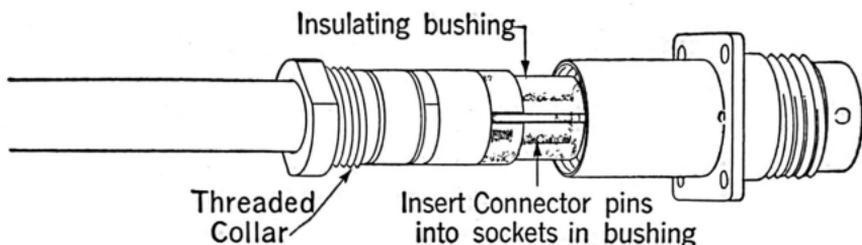


Cut off braid ends short of projecting edge of outer wedge ring. Wrap exposed ends with two turns of scotch tape cut to just less than 1/8 inch width

4.07 Solder the connector pins in place with rosin core solder, taking care not to melt the polyethylene insulation. After the polyethylene has cooled, straighten the leads if necessary so the pins are parallel.



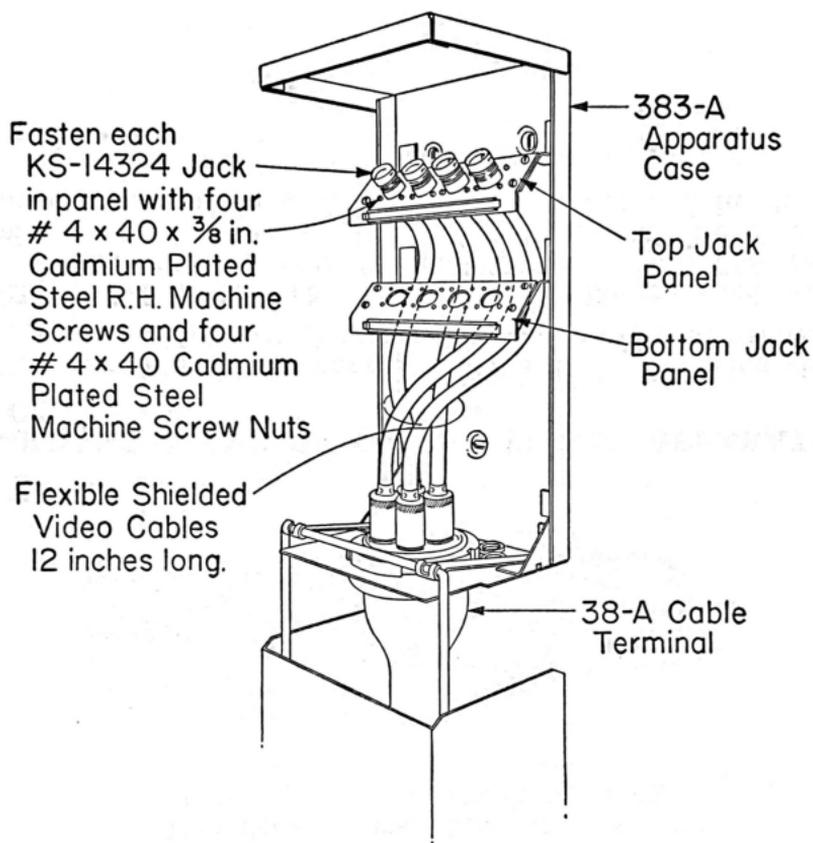
4.08 Insert the connector pins into their sockets in the insulating bushing. Line up the slot in the insulating bushing with the guide pin inside the housing and slide the assembly into the jack housing, as illustrated below. Tighten the assembly by turning up the threaded collar with the fingers, and then 1/2 turn with a wrench.



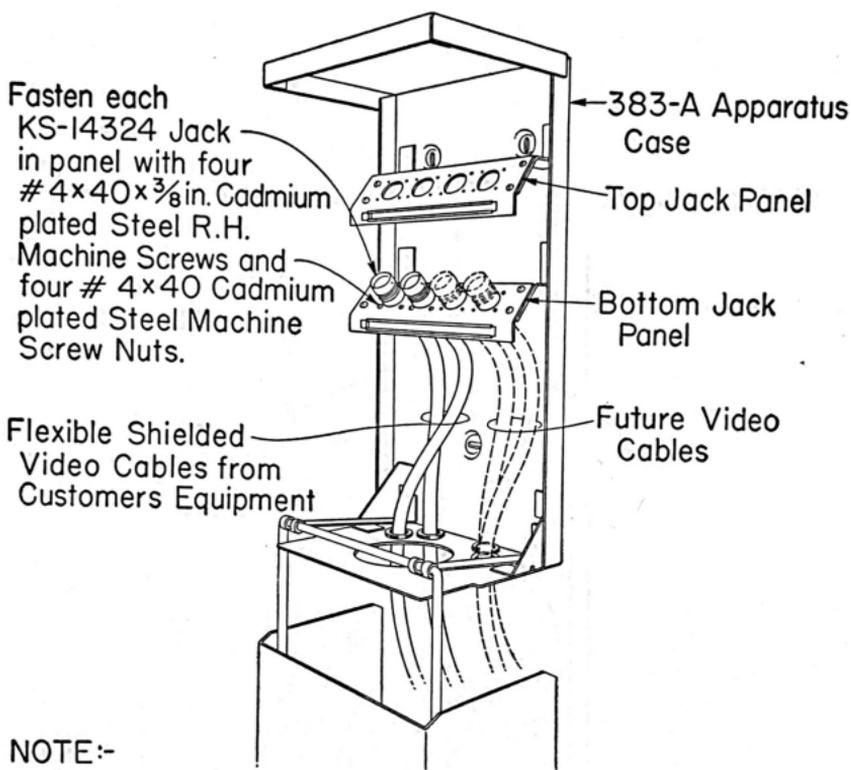
5. ARRANGEMENT OF CABLES IN 383A APPARATUS CASE

- 5.01 The internal arrangement of the flexible shielded video cables in the 383A apparatus case is outlined below.
- 5.02 Cut four 12-inch lengths of flexible shielded video cable. Each length is then connected to a 38A cable terminal pair as outlined in Part 2. The other end of each cable is then terminated in a KS-14324 jack as outlined in Part 4.

5.03 Mount the KS-14324 jacks, to which these cables are connected, in the top jack mounting panel in the 383A apparatus case as illustrated below.



5.04 Terminate the flexible shielded video cables from the amplifiers or video repeating coils in KS-14324 jacks as outlined in Part 4, and mount the jacks in the bottom jack mounting panel in the 383A apparatus case as illustrated below.



NOTE:-

38-A Cable Terminal and Cables to top Jack Panel omitted for clearness.

CABLE SPLICING—
CONNECTING AND TER-
MINATING FLEXIBLE
SHIELDED

G61.640.1

Page 9

VIDEO
CABLE

5.05 Make whatever connections are required between the top and the bottom jack panels with 2-foot long P3AG patch cords as illustrated below. The P3AG cord consists of No. 720 cable equipped at each end with a KS-14323 plug.

