

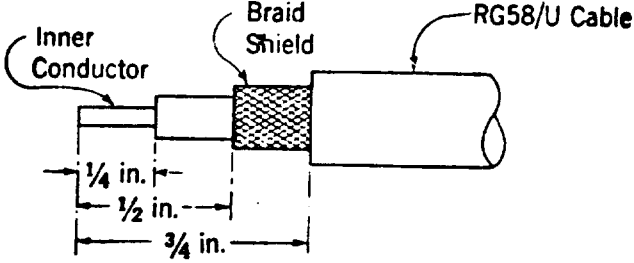
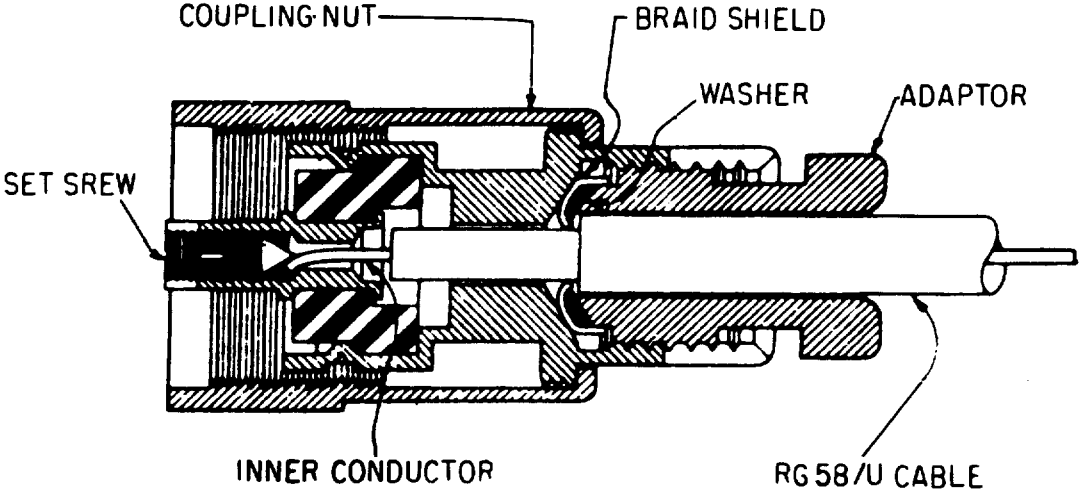


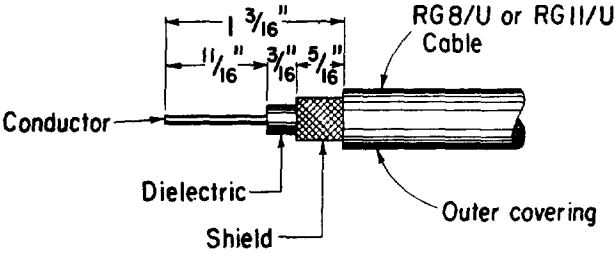
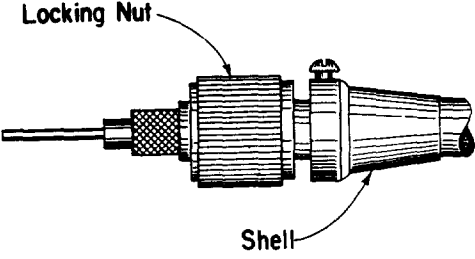
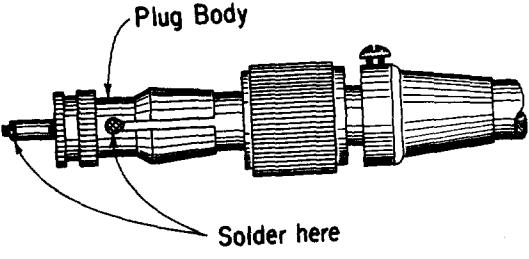
**VHF/UHF ANTENNAS**  
**MOBILE STATION MOBILE TELEPHONE SERVICE ANTENNAS**  
**INSTALLATION**  
**METHOD OF TERMINATING COAXIAL CABLE**

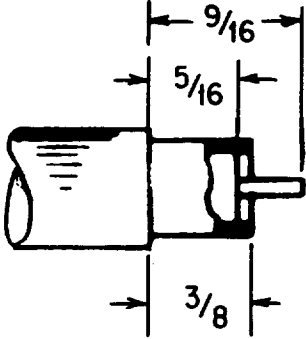
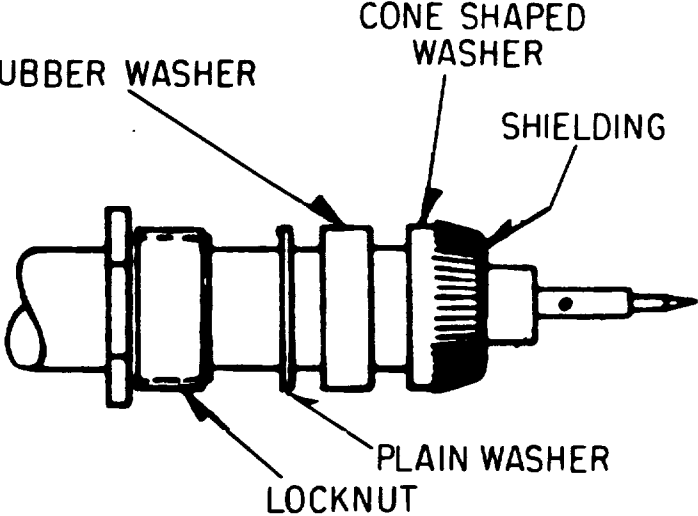
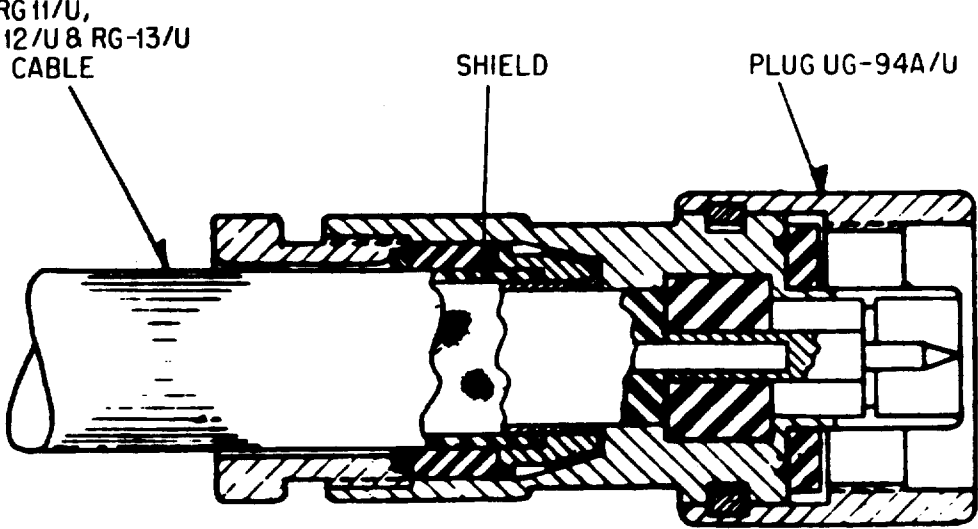
This section describes the method to be used when terminating coaxial cable in the various types of connectors (plugs) used in mobile station antenna installations and referred to in Section 402-304-100.

STEP	PROCEDURE
1	<p data-bbox="711 755 941 783" style="text-align: center;"><b>PLUG, 83-850-1001</b></p> <p data-bbox="300 815 1458 876">Trim off vinyl jacket of coaxial cable to 1-3/16 inches as indicated in Fig. 1. Do not cut or damage the braid.</p> <div data-bbox="394 949 1372 1117"></div> <p data-bbox="792 1208 857 1236" style="text-align: center;"><b>Fig. 1</b></p> <p data-bbox="198 1300 1458 1421">2 Comb out the braid and cut dielectric to 1-1/16 inches. Do not cut or damage the center conductor (see Fig. 2). Bend center conductor over double to obtain a length of 35/64 inch and squeeze with pliers to obtain a maximum thickness of 0.052 inch. Taper braid forward over dielectric and center conductor as shown in Fig. 2.</p> <div data-bbox="370 1544 1393 1713"></div> <p data-bbox="792 1819 857 1847" style="text-align: center;"><b>Fig. 2</b></p>

STEP	PROCEDURE
3	<p>Assemble 83-185 reducing adapter to cable clamp, slide assembly over cable jacket, and position leading edge flush with jacket. Fold braid back over end of entire assembly, trim and smooth out as shown in Fig. 3.</p> <div data-bbox="381 457 1339 712" style="text-align: center;"> </div> <p style="text-align: center;">Fig. 3</p> <p>Place small washer into body cavity and screw body tightly onto cable clamp, holding cable clamp and cable stationary. Screw contact on tight to retain center conductor using a screwdriver that has a blade not over 3/32 of an inch wide, such as a watch-makers screwdriver. See Fig. 4.</p> <div data-bbox="316 1074 1412 1713" style="text-align: center;"> </div> <p style="text-align: center;">Fig. 4</p>

STEP	PROCEDURE
1	<p style="text-align: center;"><b>PLUG, COAXIAL (Modified PL-259 Plug for KS-15510 Antenna)</b></p> <p>Remove insulation and prepare end of cable as shown in Fig. 5.</p> <div style="text-align: center;">  <p>Inner Conductor Braid Shield RG58/U Cable 1/4 in. 1/2 in. 3/4 in.</p> </div> <p style="text-align: center;"><b>Fig. 5</b></p>
2	<p>Place adapter over cable. See Fig. 6 for this item.</p> <div style="text-align: center;">  <p>COUPLING NUT BRAID SHIELD WASHER ADAPTOR SET SREW INNER CONDUCTOR RG 58/U CABLE</p> </div> <p style="text-align: center;"><b>Fig. 6</b></p>
3	Place washer over braided shield.
4	Flair braid out and trim to outside diameter of washer which is held against cable jacket.
5	Loosen set screw in inner conductor of connector until two (2) or three (3) full threads show. See Fig. 6.
6	With the exposed inner conductor of the cable straight, insert into back of shell of connector and tighten adaptor into shell.
7	Tighten set screw into center conductor pin of connector using a screwdriver that has a blade not over 3/32 of an inch wide, such as a watchmaker's screwdriver.

STEP	PROCEDURE
	<p style="text-align: center;"><b>PLUG, PL-259-A</b></p> <p>1 Cut end of cable even. Remove vinyl jacket 1-3/16 inches as shown in Fig. 7.</p> <p>2 Remove dielectric 11/16 inch from end of cable as shown in Fig. 7. Trim braided shield.</p> <div style="text-align: center;">  <p>Fig. 7</p> </div> <p>3 Slide shell and locking nut over cable with large opening toward prepared end. See Fig. 8.</p> <div style="text-align: center;">  <p>Fig. 8</p> </div> <p>4 Thread cable into plug body until shield is in line with holes. See Fig. 9.</p> <p>5 Solder shielding to plug body through holes using KS-512, L50 (50% tin and 50% lead) or KS-512, L60 (60% tin and 40% lead) solder. Remove excess solder.</p> <p>6 Solder cable conductor to plug pin using solder described in Step 5 and smooth off end.</p> <p style="text-align: center;"><i>Caution: Heat application for soldering shall be kept to a minimum to prevent breakdown of dielectric.</i></p> <p>7 Slip locking nut and shell over plug body and tighten shell locking screw.</p> <div style="text-align: center;">  <p>Fig. 9</p> </div>

STEP	PROCEDURE
<b>PLUG, UG-94A/U</b>	
1	Prepare end of cable as shown in Fig. 10.
2	Slide locknut over cable, then plain washer, rubber washer and cone-shaped washer so that it is flush with the outer covering. See Fig. 11. Spread shielding evenly over cone-shaped washer.
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><b>Fig. 10</b></p> </div> <div style="text-align: center;">  <p><b>Fig. 11</b></p> </div> </div>	
3	Solder probe to center conductor. Do not apply the head too long as this will melt the dielectric. Remove any excess solder that remains.
4	Insert assembly (Fig. 11) into plug and tighten locknut. See Fig. 12 for completed assembly.
<div style="text-align: center;">  <p><b>Fig. 12</b></p> </div>	