

MISCELLANEOUS CABLING OPERATIONS  
CUTTING CABLES DEAD AT CABLE RACKS

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1. GENERAL

1.1 Scope of Section

1.1.1 This section covers the procedure to be followed when cutting dead cables from cable runs containing live cables. Adherence to this procedure will reduce the possibility of service interruptions occurring.

1.1.2 Dead Cables are those cables made dead due to their disconnection at equipment terminations at both ends of a cable as a result of equipment removals, relocations, modifications, etc.

1.2 General Information Pertaining to Arrangement of Tools, Precautions, Verifications, Specs and Drawings and Figures

1.2.1 Refer to Section 1 of this handbook for information pertaining to these items.

2. INSTRUCTIONS

2.1 Extent of Removal

2.1.1 Normally, job specifications specify the extent to which dead cables on cable rack are to be removed.

2.2 Loosening Dead Cables

<p><b>CAUTION:</b> USE CARE DURING THE LOOSENING OPERATION TO AVOID DAMAGE TO ADJACENT CABLES WHICH MAY BE LIVE. DO NOT USE UNAPPROVED TOOLS TO LOOSEN CABLES BECAUSE SUCH USE MAY RESULT IN PERSONAL INJURY OR SERVICE INTERRUPTION.</p>
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2.2.1 In order to eliminate the possibility of service interruptions being caused by the ends of dead cable coming in contact with live circuits, tape the ends of dead

cables with R-3428 Gray Plastic Tape.

2.2.1.1 Place a single layer (or as many as required to cover the end) across the end of the cable and longitudinally along the sides of approximately 1-1/2". Then wrap a single layer of tape over the 1-1/2" area of the tape previously applied.

2.2.2 Loosen dead cables from cable runs by removing the cable clips or sewing twine used to secure them. Use the R-2542 Clip Remover as prescribed in Section 312 of this handbook to remove the clips and the R-1682 9" Scissors to cut the twine. Loosen cables as far along the cable racks as required to permit removing them to the extent specified in the job specification. Live cables loosened in the process shall be temporarily tied up and off the cable racks as required to facilitate removal of dead cables.

2.2.3 When removing dead cable from bays, or in the vicinity of bays which have working cables equipped with coaxial type jacks and plugs, the installer shall secure the working connections (jacks and plugs) by tying with twine. This precaution shall be observed even though protective devices (spring clips) for locking plugs and jacks together are in place. At the conclusion of the operation, the twine protection ties shall be removed.

2.3 Using Cable Markers

2.3.1 To prevent service interruptions due to cutting cables with live circuits, cable markers are to be attached to all cables in the vicinity of the work being performed. Cables with live circuits, as well as those to be cut, are to have cable markers attached.

2.3.2 The R-4888-1 Red Cable Marker (see Figure 1) is to be attached to all cables with live circuits.

2.3.3 The R-4888-2 Green Cable Marker (see Figure 1) is to be attached to all dead cables to be cut and removed.

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2.3.4 On both the red and the green cable markers, the order number of the job, initials or name of person installing the marker (verified by) and date are to be filled in. The cable markers are installed by removing the backing from the pressure sensitive adhesive and folding the marker back upon itself as it is passed around the cable.

#### 2.4 Cutting and Removing Dead Cables

<p><b>CAUTION:</b> DO NOT, UNDER ANY CIRCUMSTANCES, CUT THE LOOPS OF ANY DEAD CABLES ON OR OVER CABLE RUNS CONTAINING LIVE CABLES.</p>
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2.4.1 Where job specifications do not specify the extent to which dead cables are to be removed from cable runs, remove them up to a point on the cable rack as close as practical to the cross strap to which they were last secured. To do so,

1. mark the dead cables at the above (cutting) point with a China marking pencil
2. loosen them from the cable run a convenient distance beyond the cutting mark and tie adjacent live cables loosened in the process as required.
3. pull the dead cables back and off the cable rack so that their ends and portions having the cutting marks hang off the rack in an area clear of live cables
4. place cable-end through the R-4225 (8" cutter with guard) (see Figure 2) or the plate hole (R-4073) (see Figure 3) which is attached to the blades of the cable cutters (R-1514)
5. push cable through the R-4225 Guard or cable cutter plate to cutting point
6. cut cable with R-4225 (8" cutter with guard) or R-1514 Cable Cutters
7. dispose cut off length of cable and place the cut end of the dead cable back on cable rack.

2.4.1.1 Where job specifications specify removing dead cables up to given points on the cable rack, remove as much of the cables specified for removal as practical. To do so, repeat operations 1 to 6 in Paragraph 2.4.1 above.

2.4.1.2 Where cable rack conditions prevent removing the specified length of dead cables in one length, remove them in sections (several lengths) repeating operations 1 to 6 in Paragraph 2.4.1 above for each section.

2.4.2 For complete cable removal instructions (cable mining), refer to Handbook 42.

#### 2.5 Removal of Cable Markers

2.5.1 Upon completion of all cutting and removal of dead cables, the cable markers are to be removed and discarded.

#### 2.6 Treatment of Dead Cable Ends

→ 2.6.1 The ends of all dead cables on cable racks are to be taped with the R-3428 gray plastic tape for the safety of the installer to prevent scratches or other personal injury.

#### 2.7 Restoring Cable Runs

2.7.1 Resecure cables cut loose from cable runs during the process of removing dead cables. Use securing methods prescribed in the 300 series of this handbook.

→ indicates new or changed information

] indicates information subject to verification.

Engineering Planning Manager  
(Installation)

#### Attachments:

Figure 1  
Figure 2  
Figure 3  
Table A

#### Reason for Reissue:

Revised Paragraph 2.6.1

TABLE A. VERIFICATION

VERIFICATION ITEMS AND BRIEF STATEMENT OF REQUIREMENTS	REFERENCE	
	Par. No.	Fig. No.
<u>Treatment of Dead Cable Ends</u>		
▶ The ends of all dead cables on cable racks are to be taped with the R-3428 gray plastic tape for the safety of the ↳ Installer.	2.6.1	
<u>Restoring Cable Runs</u>		
Resecure cables cut loose from cable runs during the process of removing dead cables.	2.7.1	
<u>Removal of Cable Markers</u>		
Upon completion of all cutting and removal of dead cables, the cable markers are to be removed and discarded.	2.5.1	

<b>DO NOT CUT THIS CABLE</b>	<b>DO NOT CUT THIS CABLE</b>
	ORDER NUMBER _____
	VERIFIED BY _____ DATE _____
R-4888-1 (3-80)	

RED MARKER

<b>CUT THIS CABLE ONLY</b>	<b>CUT THIS CABLE ONLY</b>
	ORDER NUMBER _____
	VERIFIED BY _____ DATE _____
R-4888-2 (3-80)	

GREEN MARKER

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FIG. 1 CABLE MARKERS R-4888-1 AND R-4888-2  
(PAR. 2.3.2. and 2.3.3)

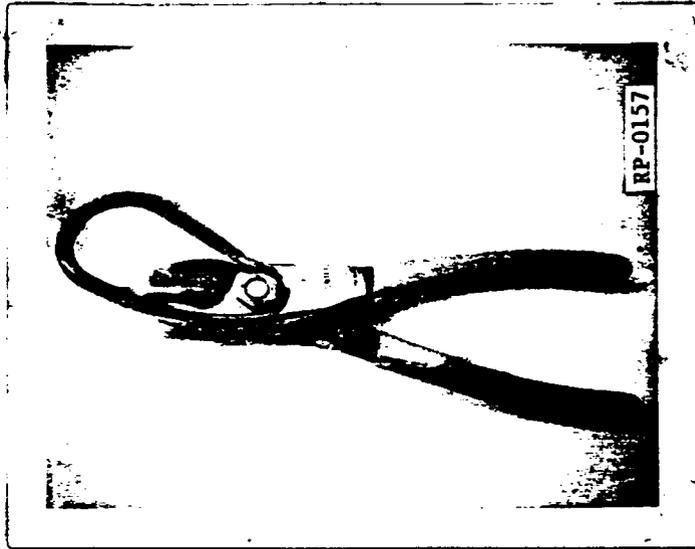


FIG. 2 R-4225 8" CABLE CUTTER WITH GUARD  
(PAR. 2.4.1)

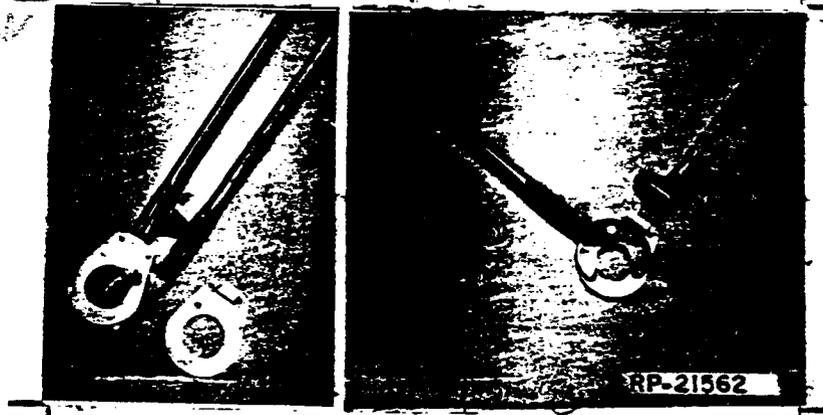


FIG. 3 CABLE SHEARS (R-1514) WITH ATTACHED R-4073 CABLE-CUTTER-PLATE  
(PAR. 2.4.1)