

BUTTING AND STRIPPING
ABAM, ABMM AND 600B TYPE CABLE

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| 1. <u>GENERAL</u> | 4. <u>REQUIREMENTS AND METHODS</u> |
| 1.1 <u>Scope of Section</u> | 4.1 <u>Non Grounded Applications</u> |
| 1.1.1 This section covers the information, requirements and methods for butting and stripping ABAM, ABMM and 600B type cables. Included are the requirements for non-grounded and grounded applications. | 4.1.1 <u>Butting and removing the PVC jacket and Aluminum Shield on ABAM, ABMM and 600B Type cables with 6 through 100 pairs of conductors using the R-4447 ABAM Cable Butting Tool.</u> |
| 1.2 <u>General Information Pertaining To Arrangement of Tools, Precautions, Verifications, Specifications and Drawings, and Figures</u> | 4.1.1.1 Move the flat spring (see Figure 1) completely forward. |
| 1.2.1 Refer to Section 1 of this handbook for information pertaining to these items. | 4.1.1.2 Move the slide on the handle to adjust the amount of pressure applied by the flat spring on the cable (the larger the cable diameter, the further back the slide must be). |
| 2. <u>INSTALLING EQUIPMENT</u> | 4.1.1.3 Insert the cable into the tool, rotate the tool 360°. |
| 2.1 The tools and supplies normally required for butting and stripping cable are covered in Section 400. In addition, the following are required: | 4.1.1.4 Remove the tool. |
| R-4447 ABAM, Cable Butting Tool | 4.1.1.5 Bend the cable at the butt. This will cause the shield to tear cleanly along the score in the shield made in Paragraph 4.1.1.3. |
| R-2884 Stripper, Power Wire | 4.1.1.6 Slide off the PVC jacket and shield. If the coverings are too long to remove in one step, they should be removed in several steps as required. |
| R-3428 Tape, 3/4" Gray Plastic Adhesive | |
| 3. <u>DESCRIPTION OF CABLES</u> | <u>NOTE:</u> While the front portion of the R-4447 Cable Butting Tool looks very similar to the R-4366 Cable Butt and Strip Tool, DO NOT attempt to strip shielded cable with this tool. While it is possible to slit both the shield and the PVC jacket with the R-4447, it will generally damage the conductors. |
| 3.1 ABAM cable consists of a core of conductors enclosed in a clear plastic jacket, over which is a corrugated aluminum shield, and finally an outer PVC jacket. The conductors are 22 gauge tinned copper wire, dual insulated with PVC over Pe. The cable is provided in 12 sizes ranging from 6 through 600 pairs. | 4.1.2 <u>Butting and Removing the PVC Jacket and Aluminum Shield on ABAM and ABMM Cables with more than 100 pairs of conductors.</u> |
| 3.2 ABMM cable is similar to ABAM cable, except the conductors are 24 gauge and untinned. It is provided in 7 sizes ranging from 100 through 900 pairs. | 4.1.2.1 Butt the cable using the R-2884 Power Wire Stripper. Set the tool to cut completely through the outer PVC jacket and aluminum shield without |
| 3.3 The 600B type cable is similar to ABAM cable, except the conductors are color coded with longitudinal stripes. It is provided in 7 sizes ranging from 6 through 100 pairs and identified as 606B through 612B. | |
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cutting the inner clear plastic jacket. Use a scrap piece of cable to determine the required setting of the R-2884.

NOTE: For the proper use of the R-2884 Stripper, refer to Section 7A of Handbook 18.

4.1.2.2 After butting the cable, slide off the PVC jacket and aluminum shield. In the event the shield was not completely cut through during the butting operation, bend the cable back and forth carefully to sever the shield and then pull the coverings off.

NOTE: If the coverings are too long to be removed in one step, they should be removed in several steps, as required.

4.1.3 Wrap R-3428 Tape around the end of the cable to keep the binders from separating.

4.1.4 Removing the Clear Plastic Jacket

4.1.4.1 Remove the clear plastic jacket up to a point 1/4" from the butt of the aluminum shield. Wrap two half-lapped layers of R-3428 Tape around the cable, (over the PVC jacket) 1/2" above and 1/2" below the butt.

4.2 Grounded Applications

4.2.1 The shields of all cables shall be buzzed to verify shield continuity after the cables are run and secured in their final position and prior to the final connecting operation.

4.2.2 The butting and removing of the PVC jacket and shield is covered in Paragraph 4.1 of this section.

4.2.3 Removing The Clear Plastic Jacket

4.2.3.1 Remove the clear plastic jacket up to a point 3/4" from the butt of the aluminum shield.

→ 4.2.4 Notch the PVC jacket for installation of a ground wire, using the R-4447 ABAM Cable Butting Tool as follows:

- a. Move the flat spring completely back.
- b. Insert the blade holder between the PVC jacket and the shield. (See Figure 1.)

→ c. Notch the PVC jacket to the required length and remove the tool.

4.2.5 Attach the ground wire to the aluminum shield of the cable end to be grounded, as covered in Handbook 9, Section 740.

4.2.6 Wrap the grounded cable end with two half-lapped layers of R-3428 Tape up to a point 1-1/4" above and 1-1/4" below the butt of the aluminum shield.

→ indicates new or changed information.

Engineering Planning Manager
(Installation)

Attachment:
A - Figure 1

Reason for Reissue:
To reword the reference to notching.

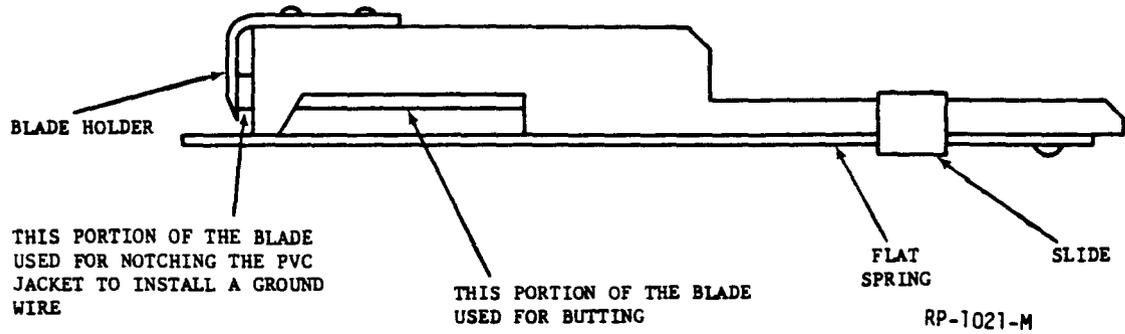


FIG. 1 R-4447 ABAM CABLE BUTTING TOOL
(PAR. 4.1.1.1 and 4.2.4b)