SHIELDED CABLES AND WIRES

SPLICING

CONTENTS

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1. GENERAL

1.1 Scope of Section

1.11 This section covers the general requirements and restrictions for splicing shielded cables and wires.

1.12 Each figure of this section illustrates only conditions to which reference is made in the text and is not to be considered as covering the requirements for other conditions that may be involved.

1.13 The requirements covered in this section shall be followed except as modified by applicable specifications and drawings.

1.2 Arrangement of Tools, Precautions, and Verification

1.21 Refer to Section 700 of Handbook 9 for information pertaining to these items.

2. INSTALLING EQUIPMENT

2.1 In addition to the tools and supplies ordinarily required for connecting and soldering operations, the following is required for the operations covered by this section.

R-3359 Tape, Gray Plastic, 1/2"

3. SHIELDED WIRES

3.1 Splices in shielded wire should be avoided whenever possible. However, when splicing is authorized by the job specification or equipment drawings, make the splice as shown in Figure 1. Use the R-3359 tape when taping the individual and overall splice. Refer to Section 720 of Handbook 9 for information pertaining to butting and stripping shielded wire.

4. SHIELDED CABLES

4.1 General Requirements

4.11 In general, splice coaxial or twin-conductor office cables only when specified by the job specification or equipment drawings.

4.111 Splice Pi-type or square-type pads (Pi or square pad cartridges) into coaxial or twin-conductor office cables when specified by the job specification.

4.112 When equipment units panels or coils are provided with pigtail cables, splice connecting cables to the pigtail cables.

4.12 When splicing has been authorized make all splices in coaxial or twin-conductor office cables in accordance with the terminating drawings referred to in Section 700 of Handbook 9.

4.121 Refer to Section 730 of Handbook 9 for information pertaining to butting and stripping cables.

4.122 Refer to Section 740 of Handbook 9 for information pertaining to solderless crimped shield connections.

4.2 General Splicing Restrictions

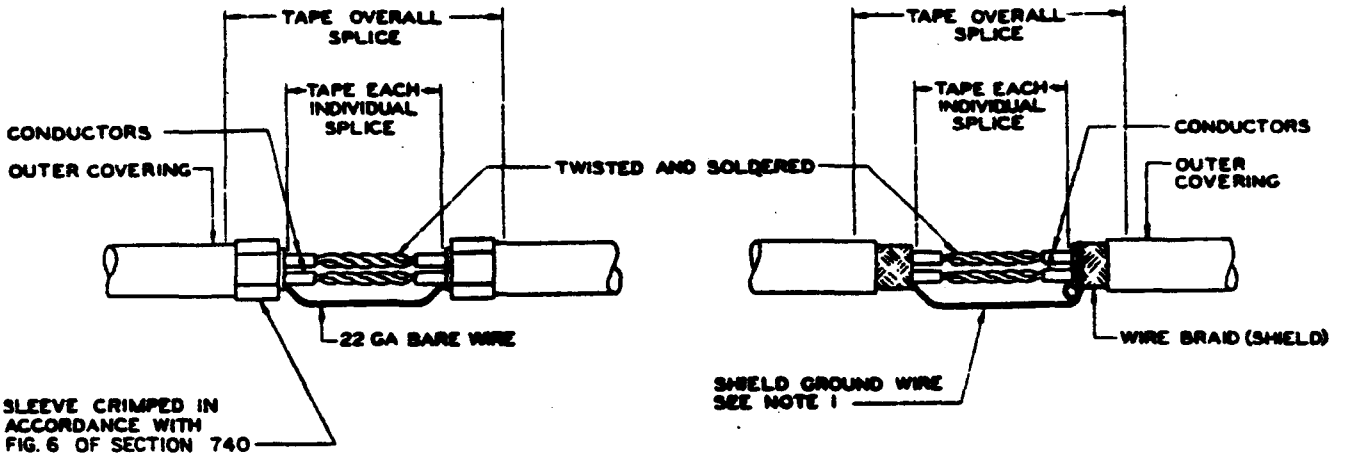
4.21 When splicing has been authorized, the following general restrictions apply (excluding pigtail splices).

4.211 Not more than one cable splice may be made in any one cable when equipment is first installed.

4.212 One additional splice may be made when circuits are later reassigned or rerouted.

4.213 Two splices in same cable not closer than 5 feet.

4.214 Splices not less than 2 feet from the end of the cable.



NOTES:
1. SPLICE THE GROUND WIRES ADJACENT TO THE SHIELD WITH A PIGTAIL SPLICE; AFTER SOLDERING WRAP THE PIGTAIL AROUND THE WIRE BRAID.

FIG. 1 METHOD OF SPLICING SHIELDED WIRE (PAR. 3.1)

4.215 Splices in adjacent cables not closer than 9 inches center to center.

4.216 Wherever practicable, splices shall be left accessible.

4.217 Spliced cables shall not be pulled along cable racks or within the wiring ducts of bays. This is to avoid possible damage to the splice connections.

4.3 Opening Splices

NOTE: In the event it is necessary to replace any equipment unit, panel or coil having a pigtail splice, always open the splice and disconnect the connecting cable at the splice instead of disconnecting the pigtail cable within the unit.

4.31 To permit opening a splice or spliced-in pad in coaxial or twin-conductor office cables, the outer splicing sleeves are provided with "rip tabs". The "rip tabs" are formed by double, parallel longitudinal scorings on opposite sides of the sleeve.

4.311 A "tab" is removed by breaking the end loose with the tip of pliers, then rolling it back on the tip end of pliers, in a manner similar to that of opening a food can with a "key".

4.312 After the "tabs" are "ripped" out on both sides of the sleeve, the two halves of sleeve fall away, thus making the inner connections accessible.

→ Arrowed lines indicate new or changed information.

[Vertical line at side of paragraph indicates requirements.

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Reason for Reissue:
To show method of making crimped type shield splices in Figure 1.

Replaces Section 750 dated 10-20-60.