

3M SCOTCHLOK* 4460-D SHIELD CONNECTOR
INSTALLATION INSTRUCTIONS

1. GENERAL

- 1.01 This section is a cover sheet for the 3M Scotchlok* 4460-D Shield Connector. This section is reproduced with the permission of 3M TelComm Products Division.
- 1.02 Whenever this section is reissued the reason(s) for reissue will be listed in this paragraph.
- 1.03 The 3M Scotchlok* 4460-D Shield Connector is designed for making a stable and low resistance electrical connection between communication cables of .80" diameter or less and a conductor such as a strap, wire or braid.
- 1.04 If corrections are required in the attached document, use Form-3973 as described in Section 000-000-015.
- 1.05 If manufacturing and/or design problems are encountered, refer to Section SW 010-522-906 for procedures on filing an Engineering Complaint.

2. ORDERING PROCEDURES

- 2.01 The 3M Scotchlok* 4460-D Shield Connector can be ordered from the Southwestern Inventory Management System (SWIMS). The Connector and all components should be ordered as item ID#: 701-079-642, by each. The description is: Clamp, bond 4460D, e/w 2 star nuts-3M.
- 2.02 To order additional copies of this practice, use MMMC 081-852-800SW as the section number.

3. REPAIR AND RETURN

- 3.01 Problems encountered with these units should be referred to:
3M TelComm Products Division
Minnesota Mining & Manufacturing Co.
Austin, Texas 78769-2963

*SCOTCHLOK - Patent trademark of Minnesota Mining & Manufacturing

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1. GENERAL

1.01 This section provides descriptive nomenclature of the 3M SCOTCHLOK* 4460-D Shield Connector, and methods of installing the 4460-D Shield Connector.

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1.02 Whenever this section is reissued, the reason(s) will be listed in this paragraph.

1.03 The SCOTCHLOK* 4460-D Shield Connector is designed to make a stable and low resistance electrical connection between communication cables of .80" diameter or less (100 pair, 24 gauge and under) and a conductor such as a strap, wire or braid. See Figure 1 for complete installation.

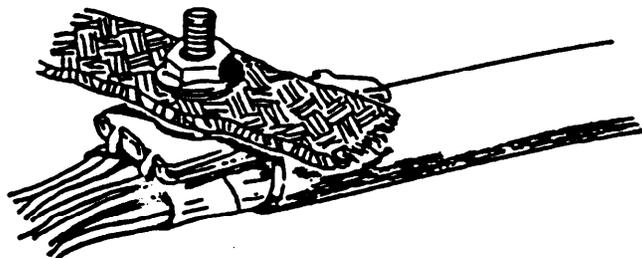


Figure 1 - Complete Graphic Description

2. DESCRIPTION

2.01 The 4460-D Shield Connector is shown in Figure 2. Three major components make up the Connector. The connector bottom with bolt attached, the connector top, and two securing nuts make up a connector. The only tool required is a 3/8" terminal wrench.

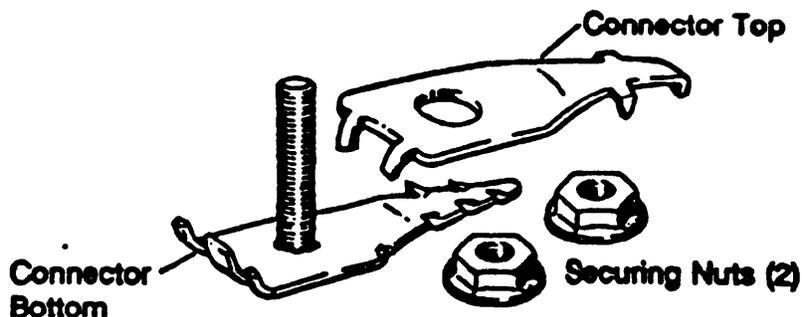


Figure 2 - Displaying Components

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3. TOOLS REQUIRED

3.01 The only tool required for the 4460-D Shield Connector is a 3/8" Terminal Wrench or equivalent. This is used to tighten the Securing Nuts to the connector bolt.

4. CABLE PREPARATION

4.01 The 4460-D Shield Connectors can be used on both single and double sheath cables. For use on single sheath cables, remove 3/4" (19 mm) of cable sheath exposing the Core Wrap. Cut the shield flush with the sheath. See Figure 4.1, this prepares the sheath for installation of the 4460-D.

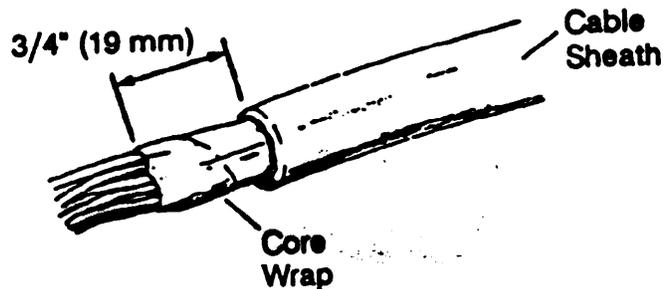


Figure 4.1 - Preparation of Single Sheath Cable

4.02 For use on double sheath cables, cut shield flush with the sheath. Remove 3/4" (19mm) of outer cable sheath exposing the inner sheath. Remove 1/8" (3mm) of inner sheath exposing the core wrap. See Figure 4.2, this prepares the sheath for installation of the 4460-D.

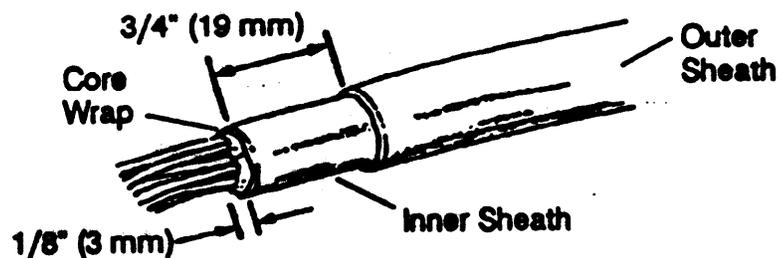


Figure 4.2 - Preparation of Double Sheath Cable

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5.0 INSTALLATION

5.01 After preparing the sheath of either a single or a double sheath cable, insert the 4460-D Sheath Connector base between the shield and core wrap or inner sheath for double sheath cable, until the connector stops meet the outer sheath. Tap sheath above connector base to set connector teeth. See Figure 5.1.

NOTE:

For cables of .45" in diameter and less, a 1" slit on the side of the sheath opposite the connector will aid the insertion of the base.

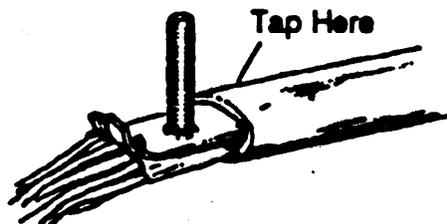


Figure 5.1 - Application of Connector Base

5.02 Preterminated ground wire. See Figure 5.2.

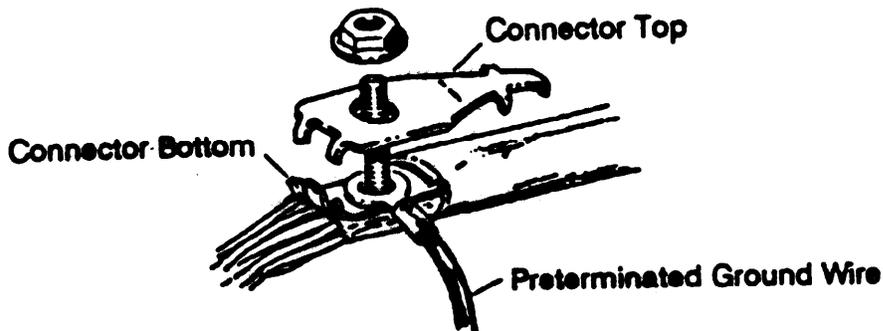


Figure 5.2 - Applying Ground Wire to Base

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5.03 Exposed strand. See Figure 5.3.

NOTE:

Be sure that the insulation of the ground wire is not pinched between the connector halves.

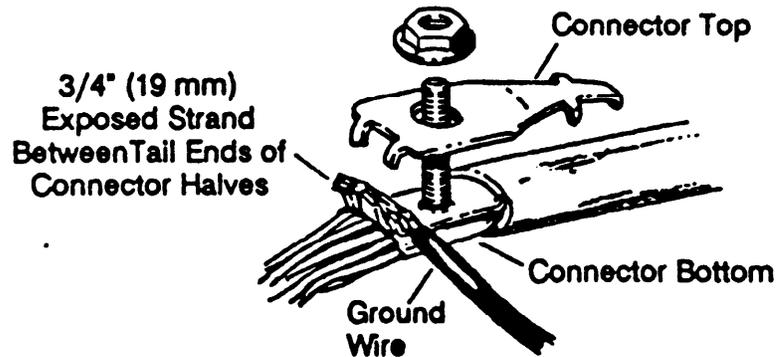


Figure 5.3 - Applying Strand to Base

5.04 If bond braid or additional grounding or bonding hardware is used, install it above the first nut and secure it with the additional nut. See Figure 5.4.

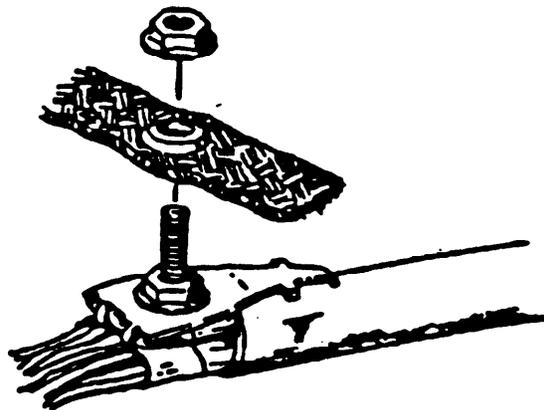


Figure 5.4 - Application of Bond Braid

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