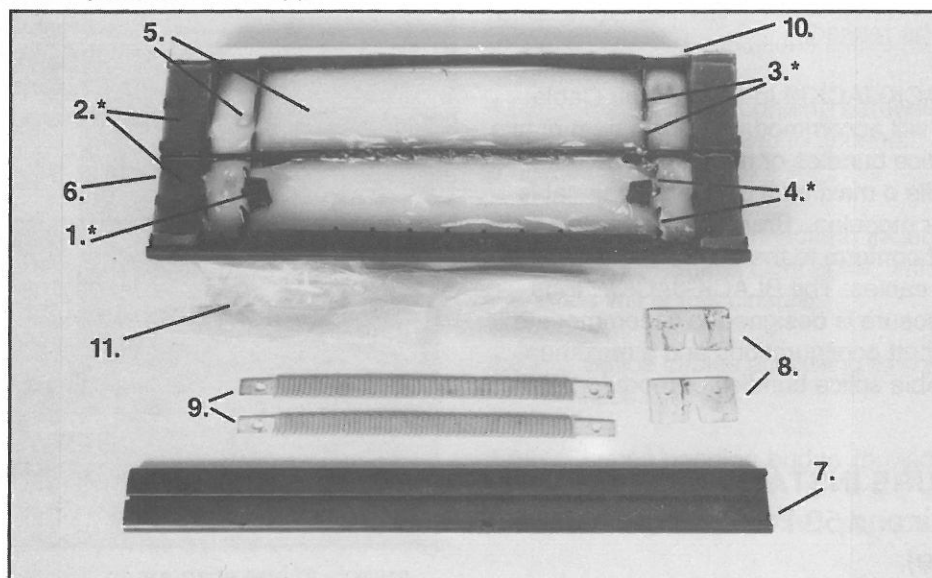


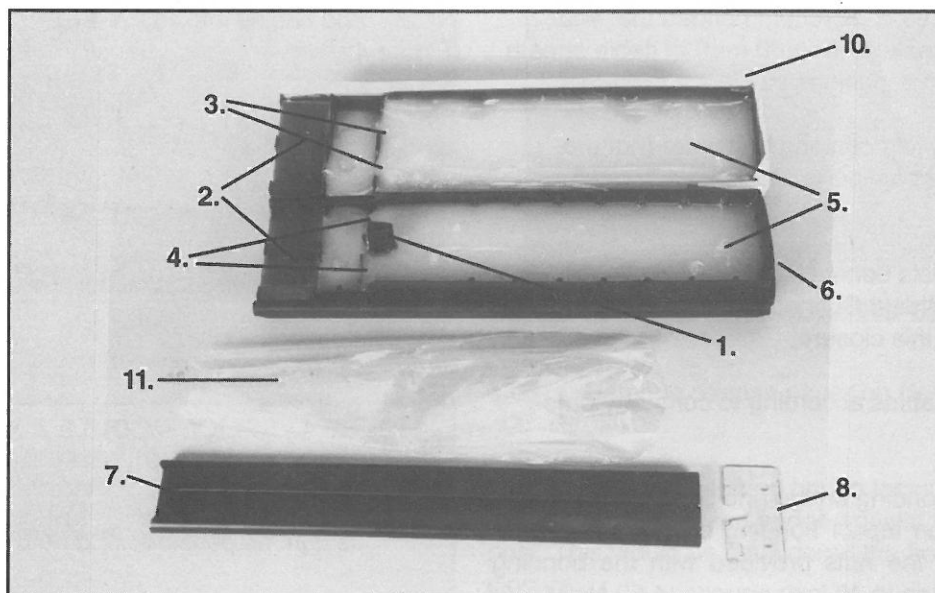
BLACK-JACK™ 25-PAIR CABLE CLOSURE & BLACK-JACK PLUS 50-PAIR CABLE CLOSURE

Be sure to read and understand this procedure completely before applying product. Be sure to select the proper size PREFORMED™ product before application.



25-PAIR & 50-PAIR CABLE CLOSURE FOR IN-LINE APPLICATION

* Indicates items that are duplicated on opposite end
 (50-Pair Cable Closure may also be utilized for butt application)



25-PAIR CABLE CLOSURE FOR BUTT APPLICATION

1.00 NOMENCLATURE

- 1.01
1. Restraining Post
 2. Soft Grommets
 3. Fixed V-notch Flaps
 4. Hinged V-notch Flaps
 5. POLY-BEE™ Sealant
 6. One-piece Closure Shell
 7. Closing Clamp
 8. Bonding Bridge(s)
 9. Bonding Bars
 10. Gasket
 11. Gloves

2.00 DESCRIPTION

2.01 The BLACK-JACK™ 25-Pair Butt and In-line Closures and the BLACK-JACK™ Plus 50-Pair In-Line Closure are re-enterable encapsulant-filled closures for direct buried 25-pair and 50-pair, 22 gauge through 26 gauge spliced cable. These closures cannot be reused.

2.02 The BLACK-JACK™ In-line 25-Pair Cable Closure will accommodate a maximum of two 25-pair cable splice bundles or modules. The butt closure will handle a maximum of one 25-pair cable splice bundles or modules. Branch cables with small pair counts must conform to the same diameter range of 25-pair cables. The BLACK-JACK™ Plus 50-Pair Cable Closure is designed to accommodate both in-line and butt configurations and a maximum of two 50-pair cable splice bundles or modules.

3.00 CLOSURE INSTALLATION (25-Pair and 50-Pair In-line Cable Closure)

3.01 Prepare cable sheath and shield according to module manufacturer's or your accepted company practices. It is recommended that you remove approximately 16" (400 mm) of cable sheath to avoid crowded conditions inside the closure.

3.02 Install shield bonding hardware (not provided) according to accepted company practices.

NOTE: All shield connectors, including the MINI-MORAY™ Shield Connector, with 3/16" diameter studs will fit this closure.

3.03 Splice cables according to company practices.

3.04 Install bonding bridge and bonding bars (provided) on top of bonding bars, as shown in Figure 2, using the nuts provided with the bonding hardware. Tighten to 40 inch pounds (4.52 Nm).

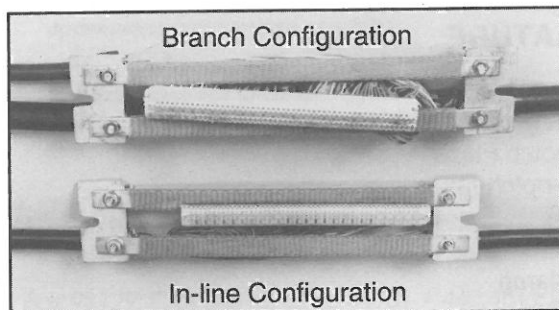


FIGURE 2 - BONDING BRIDGE INSTALLED

PLP TIP: Feed the module between the bonding bars as illustrated. For multiple modules, distribute evenly (one on top, one on the bottom) to ensure equal distribution of the POLY-BEE™ Sealant.

3.05 Remove release paper on closure. Put on gloves.

3.06 With the bonding bridge facing up, position V-notch of each bridge against restraining post. This would be considered the bottom half of the closure. (Figure 3)

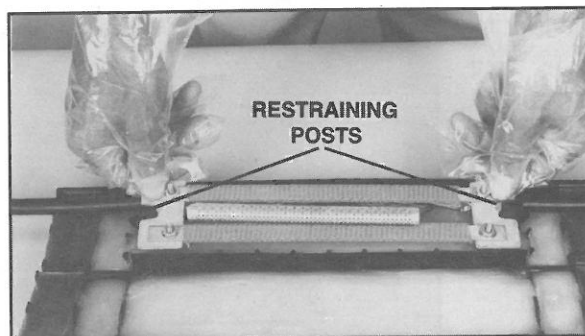


FIGURE 3 - BRIDGE AGAINST POST

3.07 Push downward on bridges to force splice and cables into POLY-BEE™ Sealant. (Figure 4)

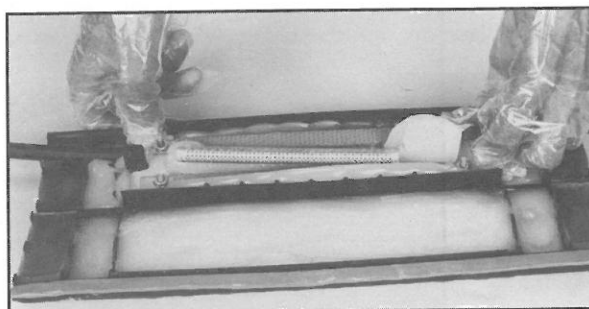


FIGURE 4 - SPLICE MODULE & HARDWARE EMBEDDED IN POLY-BEE SEALANT

3.08 Bring the two halves of the closure together as tight as possible. (Figure 5)



FIGURE 5 - BRING HALVES TOGETHER

- 3.09** Starting at one end, squeeze halves together enough to start V-notched end of closing clamp. (Figure 6)

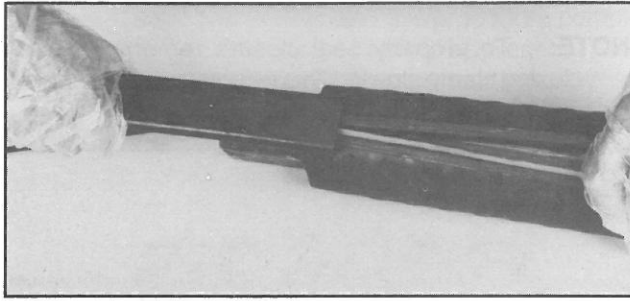


FIGURE 6 - SLIDE ON CLOSING CLAMP

- 3.10** Tap the closing clamp slowly with a mallet or hammer to allow the excess POLY-BEE™ Sealant to extrude from the Closure. (Figure 7) Continue tapping until fully closed. (Figure 8)

NOTE: To properly seal closure remember to tap closing clamp slowly. This will allow excess encapsulant to "work out" of opposite end of closure.

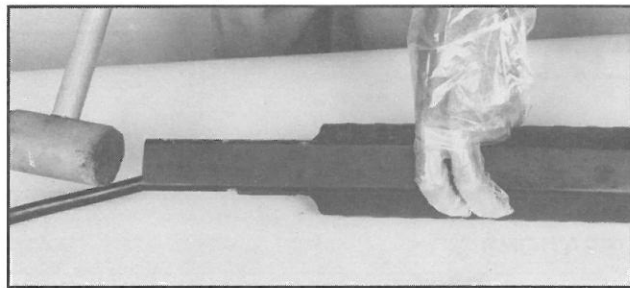


FIGURE 7 - TAP CLOSING CLAMP WITH Mallet

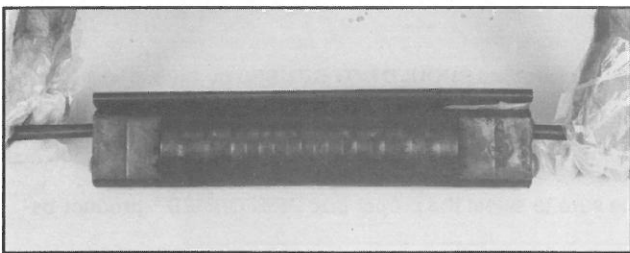


FIGURE 8- COMPLETED APPLICATION

4.00 CLOSURE INSTALLATION (25-Pair Cable Closure for Butt Splice)

- 4.01** Prepare cable sheath and shield according to module manufacturer's or your accepted company practices. It is recommended that you remove approximately 16" (400 mm) of cable sheath to avoid crowded conditions inside the closure.

- 4.02** Install shield bonding hardware (not provided) according to accepted company practices.

NOTE: All shield connectors, including the MINI-MORAY™ Shield Connector, with 3/16" diameter studs will fit this closure.

- 4.03** Splice cables according to company practices.

- 4.04** Install bonding bridge (provided) as shown in Figure 9, using the nuts provided with the bonding hardware. Tighten to 40 inch pounds (4.52 Nm).

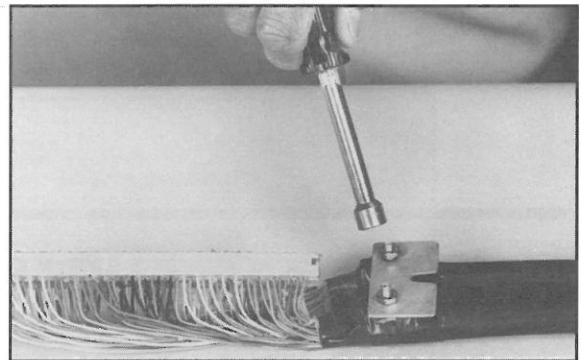


FIGURE 9 - INSTALL BONDING BRIDGE-BUTT

- 4.05** Remove release paper on closure. Put on gloves.
- 4.06** With the bonding bridge facing up, position V-notch of the bridge against restraining post. This would be considered the bottom half of the closure.
- 4.07** Push downward on bridges to force splice and cables into POLY-BEE™ Sealant.
- 4.08** Bring the two halves of the closure together as tight as possible. (Figure 5)

4.09 Starting on the end of the closure opposite the cable, squeeze halves together enough to start V-notched end of closing clamp. (Figure 10)

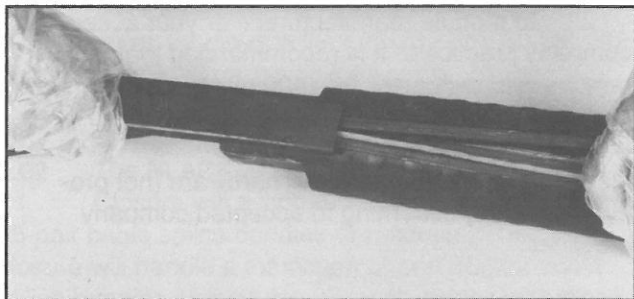


FIGURE 10 - SLIDE ON CLOSING CLAMP

4.10 Tap the closing clamp slowly with a mallet or hammer to allow the excess POLY-BEE™ Sealant to extrude from the Closure. (Figure 7) Continue tapping until fully closed.

NOTE: To properly seal closure remember to tap closing clamp slowly. This will allow excess sealant to "work out" of opposite end of closure.

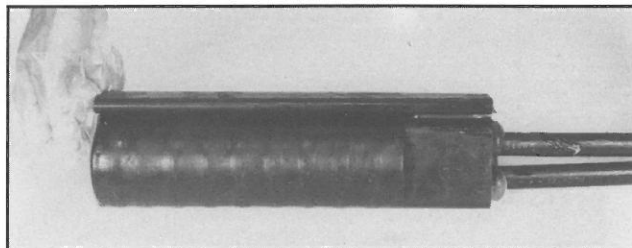


FIGURE 11 - COMPLETED APPLICATION—BUTT

SAFETY CONSIDERATIONS

1. This application procedure is not intended to supersede any company construction or safety standards. This procedure is offered only to illustrate safe application for the individual. Failure to follow these procedures may result in personal injury.
2. This product is intended for a single (one-time) use and for the specified application. **CAUTION: DO NOT REUSE OR MODIFY THIS PRODUCT UNDER ANY CIRCUMSTANCES.**
3. This product is intended for use by trained craftspeople only. This product **SHOULD NOT BE USED** by anyone who is not familiar with, and not trained to use it.
4. When working in the area of energized lines, **EXTRA CARE** should be taken to prevent accidental electrical contact.
5. For **PROPER PERFORMANCE AND PERSONAL SAFETY**, be sure to select the proper size **PREFORMED™** product before application.
6. Modular **BLACK-JACK™** Closures are precision devices. To insure proper performance, they should be stored in cartons under cover and handled carefully.

PREFORMED LINE PRODUCTS 

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