

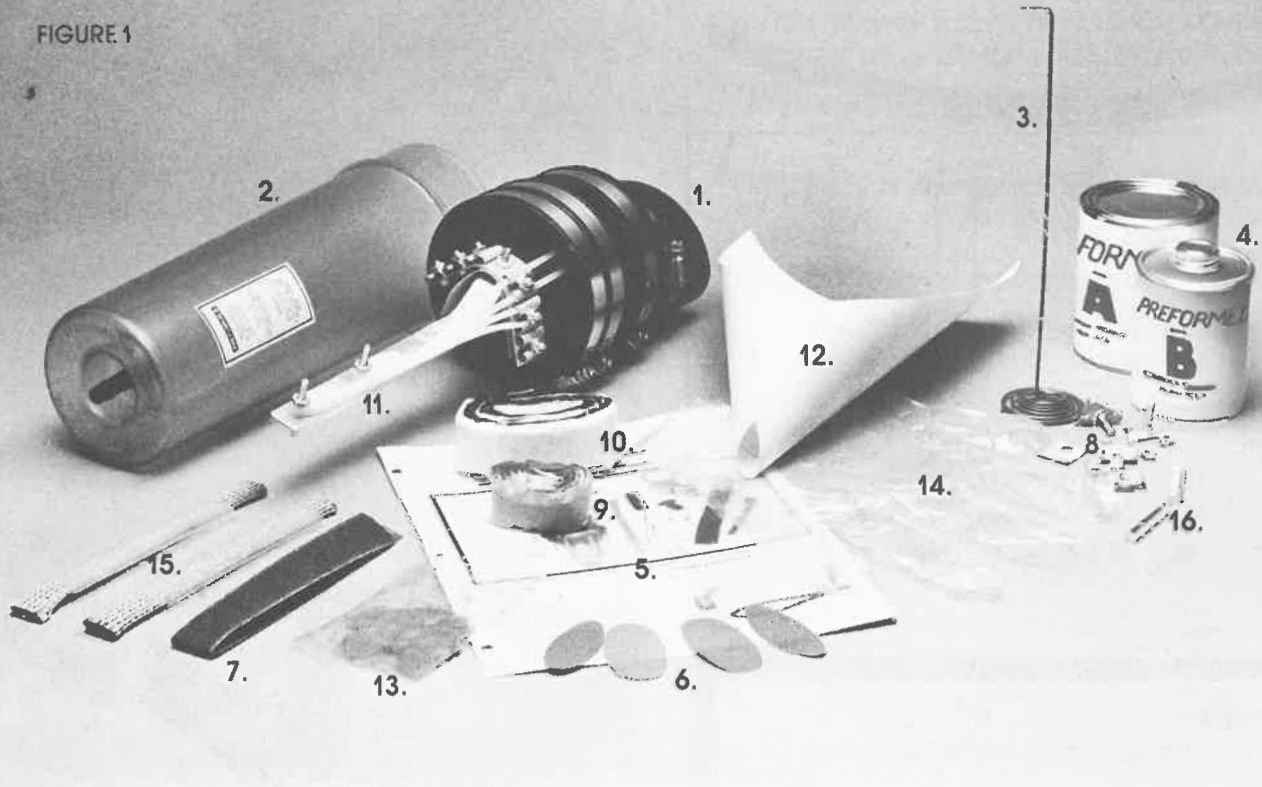
APPLICATION PROCEDURE & SAFETY CONSIDERATIONS **PREFORMED** LINE PRODUCTS



OMNI-SEAL

Be certain to completely read and understand this procedure before applying the product.

FIGURE 1



Be certain to select the proper size PREFORMED™ product before application.

NOMENCLATURE

1. Base (4 hose clamps included)
2. Clear cap with air flange
3. Resin mixer
4. Polyurethane resin (dual component)
5. Application procedure
6. Pair protectors
7. Emery cloth (for scuffing sheath)
8. SURE-GRIP™ Shield Connectors
9. Green Sealing tape
10. Black Sealing tapes
11. Support bar assembly (terminal block, optional)
12. Funnel
13. Lubricant
14. Plastic gloves
15. Bonding braid
16. Plastic rod plugs

1.00 CABLE PREPARATION

- 1.01** Measure and mark the cables for a 24" cable opening. The loop should be approximately 12" long. (Fig. 2)

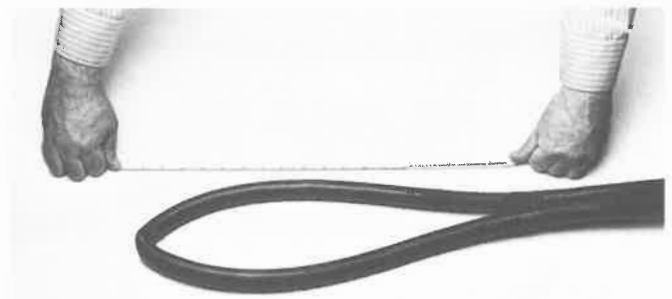
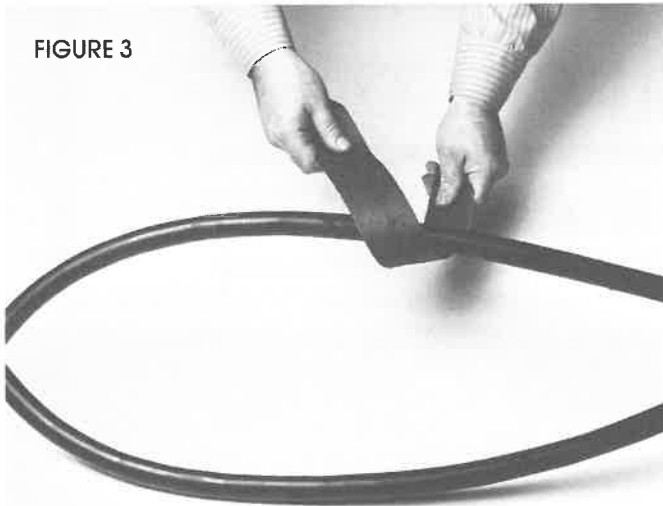


FIGURE 2

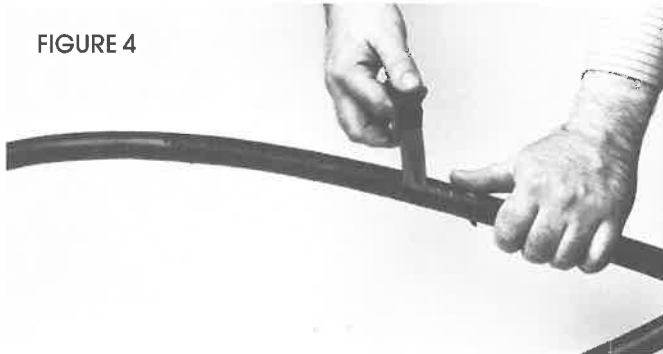
- 1.02** Scuff 6" of the cable below the cable opening mark. (Fig. 3)

FIGURE 3



- 1.03** Cover the scuffed areas with vinyl tape. (Fig. 4)

FIGURE 4

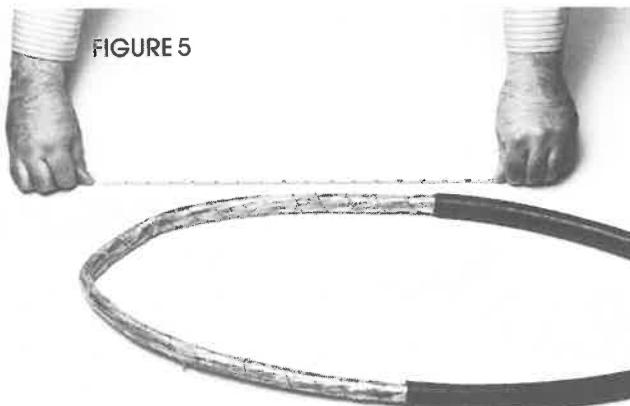


PLP® TIP:

The vinyl tape is applied on the cables to prevent any cable compound from getting on the cable sheath during the sheath opening procedure.

- 1.04** Open and remove sheath from cables. (Fig. 5) Be certain to leave the inner core wrapper intact.

FIGURE 5



- 1.05** Insert the pair protectors supplied with the kit, or construct a tape collar if your company practice directs.

- 1.06** Remove the inner core wrapper and any excess grease from cable pairs.

2.00 ASSEMBLY OF UNIT

- 2.01** Cut off the nipple, then tab the base of the Omni-Seal as much as is necessary to insert cable bundle. (Fig. 6)

FIGURE 6



- 2.02** Use the plastic small parts bag as a protective hood to cover all exposed pairs. (Fig. 7) Vinyl tape may be applied over the bag for ease of application.

FIGURE 7

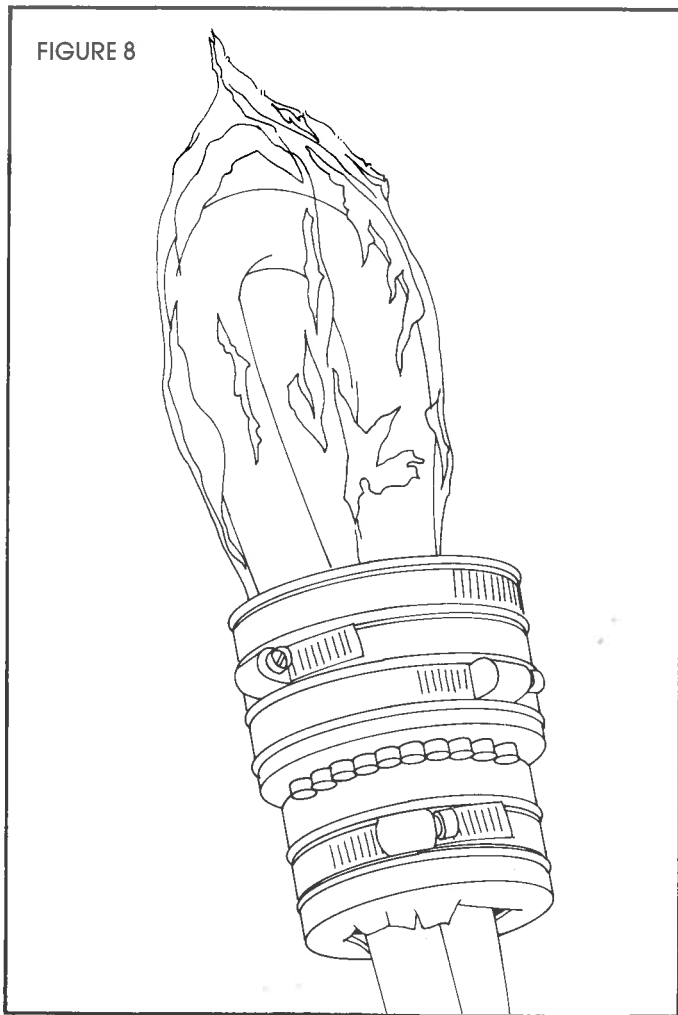


PLP TIP:

The plastic bag will keep the cable compound and any other foreign matter from adhering to the inside of the Omni-Seal base when you insert the cables.

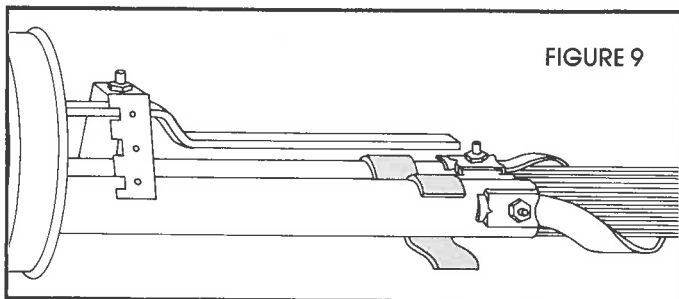
- 2.03** Run the bundle of cables through the opening that was cut into the Omni-Seal base. (Fig. 8)

FIGURE 8



- 2.04** Remove the plastic bag and apply bonding connectors as directed by your company practices.
- 2.05** Complete your splicing operation.
- 2.06** Clean hands thoroughly and remove vinyl tape from cable. (See 1.03)
- 2.07** Apply a ring of the green sealant supplied with the kit to each cable as shown (Fig. 9)

FIGURE 9

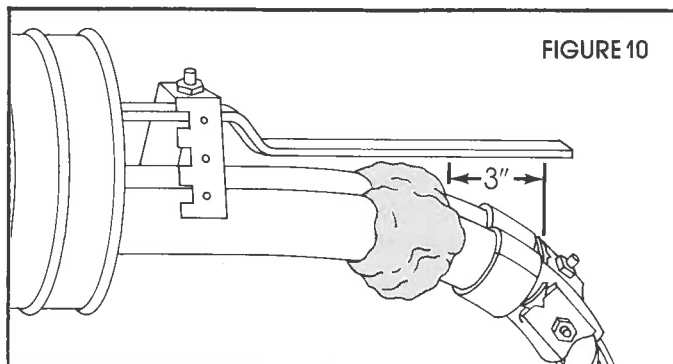


PLP® TIP:

Proper application of the green sealant is extremely important. It provides a moisture seal between the cable and the resin.

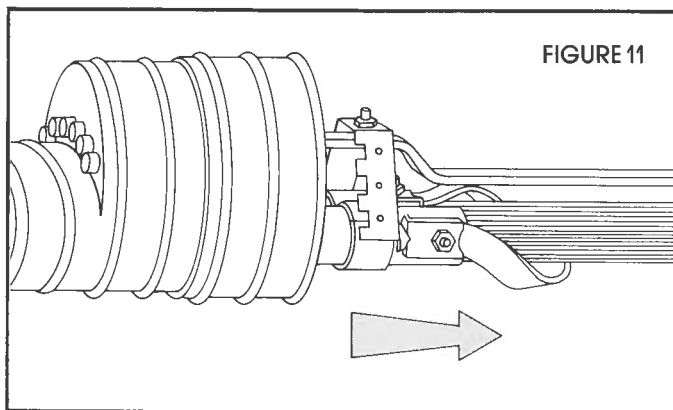
- 2.08** Construct a resin block by applying a ring of the black sealant supplied with the kit around each cable 3" below the shield bond connectors. (Fig. 10) Squeeze cables tightly so as to form a bundle. Knead the sealant in and around each cable leg.

FIGURE 10



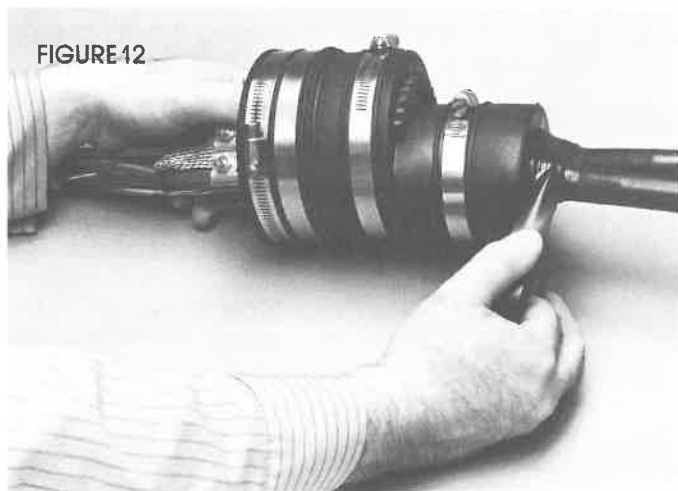
- 2.09** Slide the Omni-Slide base up the cable bundle and press firmly around the sealant. (Fig. 11)

FIGURE 11



- 2.10** Apply two half-lapped layers of vinyl tape over the sealant as shown. (Fig. 12) Make certain that all the tabs in the base have been covered.

FIGURE 12



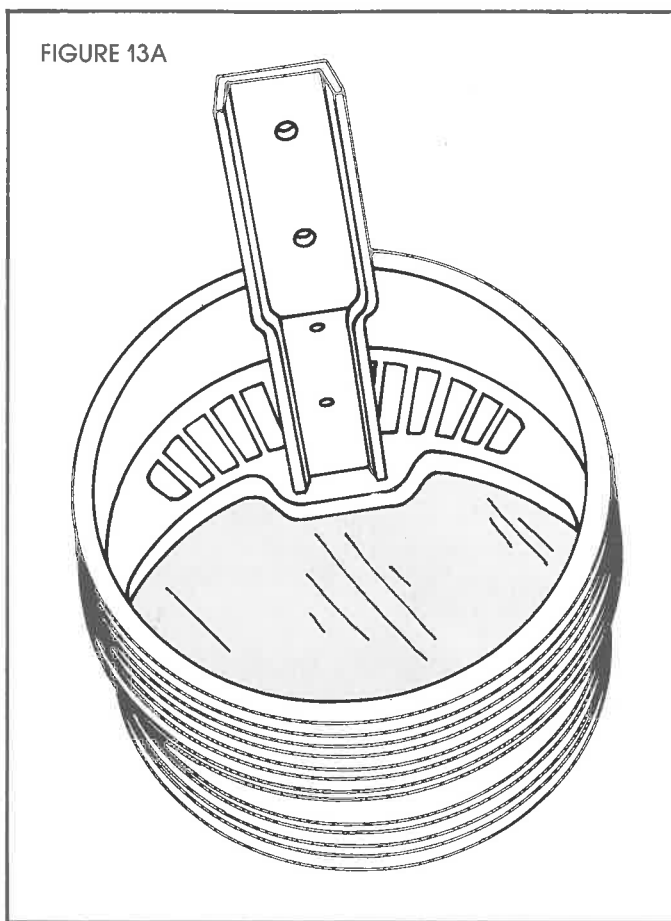
- 2.11** Separate all the cable pairs. This will assure proper encapsulation.
- 2.12** Follow the directions on the resin kit and pour the resin into the main cable entry area of the Omni-Seal as shown. DO NOT pour resin into the small outlying area designated for drops. (Fig. 13) (Fig. 13A) Using the paper funnel provided in the kit will facilitate the ease of application.



PLP® TIP:

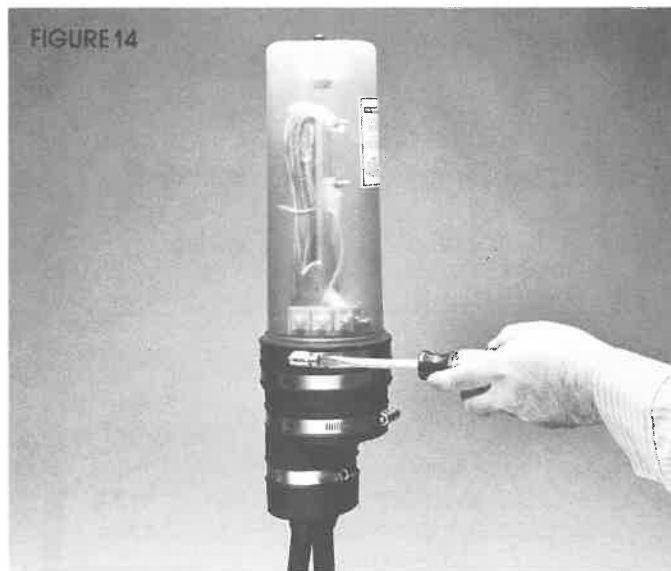
The Omni-Seal must be level and firmly braced prior to pouring the resin. Do not disturb until the resin hardens. Depending upon the temperature, this should take approximately 30 to 60 minutes.

FIGURE 13A



- 2.13** If no drops are to be added, place the top onto the base of the Omni-Seal and tighten all hose clamps firmly. (See Figure 14 and refer to the PLP Tip under 3.07)

FIGURE 14



- 2.14** If drops are to be added immediately, disregard 2.13 and follow steps 3.01 – 3.07. If drop wires are to be added at a later date keep the middle (or drop wire) hose clamp loose to permit their easy application. Then follow steps 3.01 – 3.07 during their application.

2.15 Flash testing – The unit that you receive may be equipped with an air valve on the top. If this unit is to be flash tested, use NO MORE than 3 lbs. (3 PSI) of air pressure. After flash testing, bleed pressure from the unit by depressing the valve stem. This unit is not designed to accept high internal pressure. Excess pressure could result in the cap blowing off the unit and causing personal injury. Before loosening the clamps and removing the cap, be sure to depress the valve stem to bleed any excess pressure that may have been left from the previous installations.

2.16 This is the completed application of the PREFORMED™ Omni-Seal (Fig. 15) The small nipples underneath the base can accommodate extra drops for any future cable construction.



FIGURE 15

3.00 DROP WIRE PREPARATION

3.01 Cut the nipple off the drop wire entry port or ports to be used. (Fig. 16)

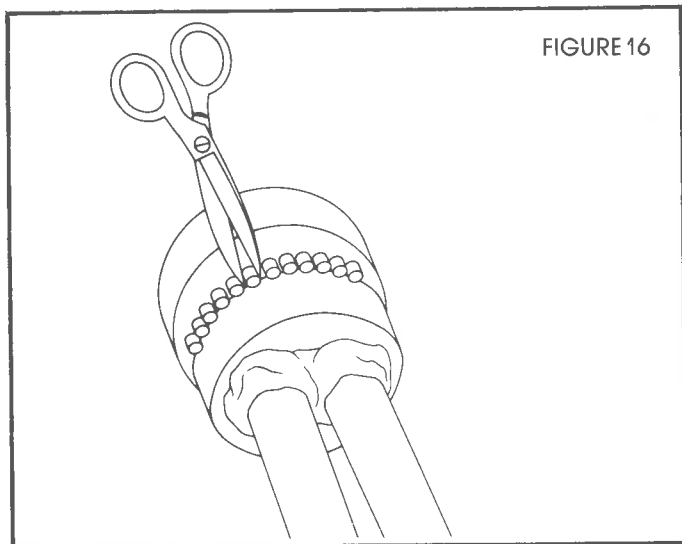


FIGURE 16

3.02 Apply the supplied lubricant to the tip of each drop wire.

3.03 Insert the drop wire through the desired entry port.

3.04 Push through as much wire as needed for ease of splicing and bonding operations.

3.05 Remove as much sheath as is necessary for the splicing operations. Leave one inch of the shield extending beyond the opened drop wire sheath.

3.06 Attach the drop wire to the drop wire clamp assembly as shown in (Fig. 17) Be certain that the extended shield is placed under the clamp.

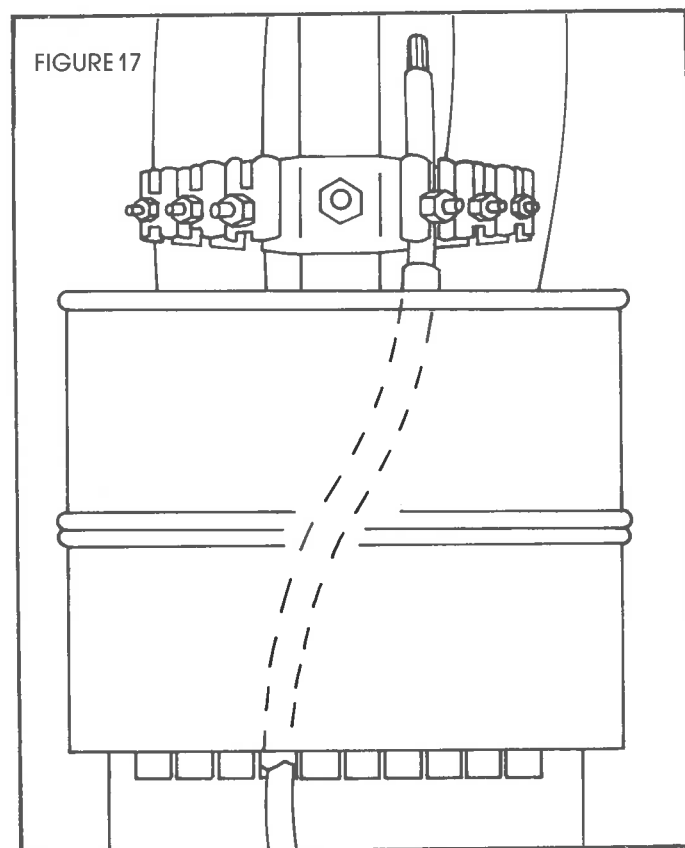


FIGURE 17

3.07 Place the top onto the base of the Omni-Seal and then tighten all hose clamps firmly.

PLP® TIP:

It is very important that the bottom hose clamp is secure. This helps to assure a proper moisture seal.

SAFETY CONSIDERATIONS

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 OR DEATH.**

Do not modify this product under any circumstances.

This product is intended for use by trained technicians only. **This product should not be used by anyone who is not familiar with, and not trained to use it.**

When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact.

For proper performance and personal safety, be sure to select the proper size PREFORMED™ product before application.

PREFORMED products 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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