

CABLE REPAIRING — UNDERGROUND

PLASTIC SHEATH CABLE

1. GENERAL

1.01 This section covers the repair of minor sheath defects in plastic sheath cables.

1.02 This section is reissued to revise the list of tapes and the method of applying them in repairing sheath defects. As this reissue covers a general revision, the arrows ordinarily used to indicate changes have been omitted.

1.03 The method of repairing cable sheath described in this section applies only to minor defects such as holes made in connection with pressure readings, cuts, cracks, etc. This method should not be used if the cable sheath has been removed. In such cases, a lead sleeve or splice closure must be used.

1.04 The method of repairing cable sheath described herein may be used in either the duct or manhole. Repairs can be made with the cable under pressure (up to 10 pounds psi).

2. MATERIALS

2.01 The following materials are required for repairing the sheath.

- C Cement
- B Aluminum Tape (2 inch)
- DR Tape (2 inch)
- Friction (Black) Tape (2 inch)
- Vinyl Tape (1 inch)

3. PROCEDURE

3.01 Using a Carding Brush, scuff the sheath at right angles to the cable, approximately 2 inches on each side of the damaged sheath.

Never scuff the sheath longitudinally as this will score the sheath and allow the gas in the cable to escape.

3.02 Apply C Cement over the scuffed area. Allow the cement to set for about 5 minutes or until it becomes tacky.

3.03 Start at one end and cover the cemented area and about 1/2 inch on each side with two half-lapped layers of 2-inch DR Tape.

3.04 Start at one end and cover the DR Tape and about 1/2 inch on each side with half-lapped layers of 2-inch B Aluminum Tape.

3.05 Using a hammer handle, smooth down the aluminum tape.

3.06 Start at the center of the taped area and cover the aluminum tape and about 1/2 inch on each side with two half-lapped layers of 2-inch friction tape (black).

3.07 Starting at one end, apply two half-lapped layers of 1-inch vinyl tape over the friction tape and about 1/2 inch on each side. Apply the tape under light tension.

3.08 Place a collar of vinyl tape over the final wrapping of vinyl tape about 1-1/2 inches in from each end of the tape. Each collar should consist of five turns of 1-inch vinyl tape. The first four turns of the tape should be applied under tension and the fifth (final) layer should be applied with no tension on the tape.