

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G55.610.3
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CABLE SPLICING—UNDERGROUND

BONDING—ALPETH SHEATH CABLES

Contents	Page
1. General	1
2. Bonding in Manholes	1
3. Bonding in Central Office Vaults	1

1. GENERAL

1.01 This section covers the installation of permanent bonds on alpeth sheath cables in manholes and central office cable vaults.

2. BONDING IN MANHOLES

2.01 The bonding ribbon shall be installed and attached to the lead sleeve in the same manner as for lead sheathed cables.

2.02 The lead sleeves on alpeth cables should be bonded together and connected to any lead sheath cables in the manhole except in pull-through manholes or unless otherwise specified.

3. BONDING IN CENTRAL OFFICE VAULTS

3.01 The aluminum sheath of all alpeth cables entering central office buildings shall be bonded together and connected to the office ground unless otherwise specified.

3.02 In central offices where a convenient lead covered cable sheath or other approved ground is available, the aluminum can be grounded by means of bonding ribbon soldered to the sleeve of the alpeth splice and to the lead covered cable or ground at that point.

3.03 Where a suitable ground can not be reached conveniently it may be desirable to establish a ground by running a strip of bonding ribbon the length of the vault frame

above the top horizontal support. The bonding ribbon can be secured with wire ties spaced approximately three feet apart. This bonding ribbon should be soldered to the central office ground lead which is terminated in the vault. As each alpth cable is installed, the ground connection can then be made conveniently by bonding the lead sheath of one of its textile terminating cables to the above bonding ribbon where they cross. If the alpth sheath cable is brought up to a splicing pit at the M.D.F., the aluminum can be grounded by means of bonding ribbon soldered to the sleeve of the alpth splice and to an adjacent lead sheath cable in the pit, or to the central office ground.

3.04 Unless called for in the plans, it is not necessary to bond the street side of the alpth sheath cable at an insulating joint; the bond at the first splice outside the office will serve the purpose.