BELL SYSTEM PRACTICES
Outside Plant Construction and Maintenance

SECTION G61.651.1
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AT&T Co Standard

CABLE SPLICING — TERMINALS
INSTALLATION OF UG 16 TERMINALS IN HANDHOLES

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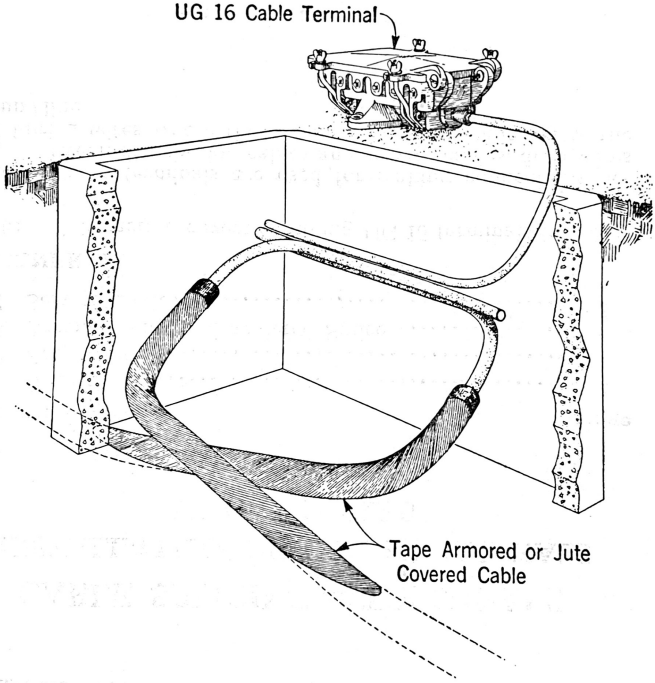
1. GENERAL

1.01 This section covers installing UG 16 terminals in handholes.

1.02 These terminals are used for making connections between distribution cables and service cables, drop wires and buried wires where these connections are made below the ground line.

2. PREPARATION

2.01 The ends of the main cable should be formed along the side and end walls of the handhole, the protective coverings being removed and terminated in the usual manner to facilitate setting up and splicing. Both main and terminal stub cables must be set up in position to permit marking the location of the splice opening, after which the terminal can be laid on the ground and the cables raised to a convenient position for splicing as shown in the following sketch. If the terminal supporting bracket is bolted in place, it should be removed to facilitate splicing.



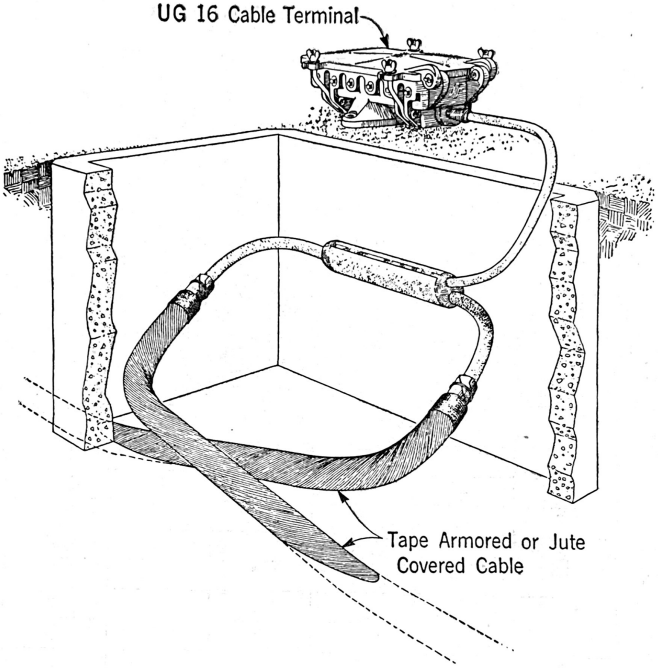
Note:- Concrete Handhole broken to show cables raised in position for splicing.

2.02 The splice can be made in the usual manner using a lead sleeve of the diameter specified in the following table.

SIZE OF LEAD SLEEVE

Size of Cable (Pairs)	Length of Sleeve (Inches)	19 Gauge Diameter (Inches)	22 Gauge Diameter (Inches)	24 Gauge Diameter (Inches)	26 Gauge Diameter (Inches)
6-11-16	9	1½	1¼	1	–
26	9	1¾	1½	1¼	1
51	9	2	1¾	1½	1¼
76	9	2¼	2	1¾	1½
101	9	2¾	2	2	1¾
152	9	–	2½	2½	2
202	9	–	3	2¾	2½
303	9	–	–	–	2¾
404	9	–	–	–	3

2.03 If the main cable is small, the splice may be made closer to one end of the handhole, to avoid using a split lead sleeve; otherwise, the splice can be made at about the middle of the side wall. A completed splice is shown in the following sketch.

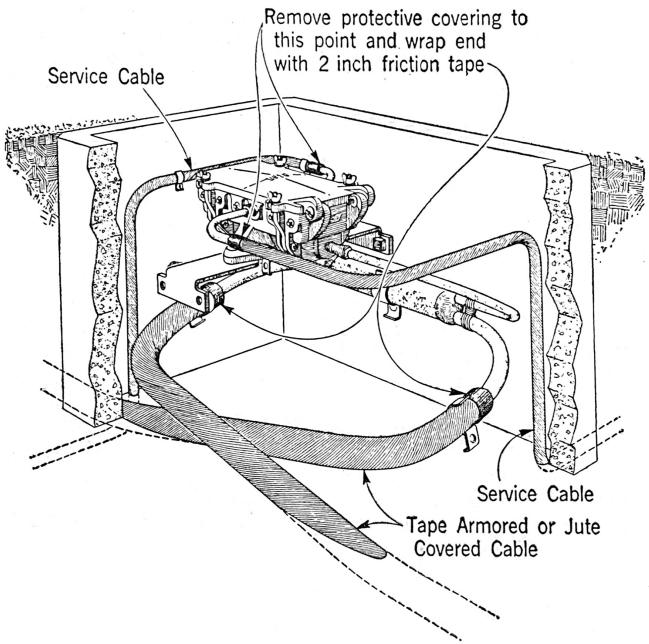


Note:- Concrete Handhole broken to show cables raised in position for splicing.

3. ARRANGEMENT OF COMPLETED SPLICE

3.01 After the splice is completed it should be lowered into the handhole and attached to the side wall by means of a cable clamp. The main cable should also be clamped in position on the end walls, as indicated below. The terminal supporting bracket should then be replaced using 3/8-inch x 1-1/2-

inch galvanized bolts in the concrete inserts. The terminal can be attached to the brackets with 5/16-inch x 1-1/2-inch galvanized machine bolts.



Note:- Concrete Handhole broken to show installation of cables and UG 16 Cable Terminal

4. SERVICE CABLES

4.01 Buried service entrances can be brought into the handhole under the side or end walls, as illustrated in Paragraph 3.01. Service cables should be clamped to the walls at one or two points, to hold them in position. The cut ends of the protective covering should be wrapped with friction tape to prevent ravelling.

4.02 If it is necessary to leave slack in the service cable, it can be done by forming a loop in the cable on the end or side wall of the handhole.