BELL SYSTEM PRACTICES
Outside Plant Construction and Maintenance

SECTION G52.175.1
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AT&T Co Standard

B DISTRIBUTION CABLE
GENERAL

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1. GENERAL

1.01 This section covers general information pertaining to the use of B Distribution Cable in urban, exchange plant.

1.02 In general, B Distribution Cable may be installed aerially in the same manner as lead covered cables. It should not be used in railroad crossing spans. Sections G52.175.2 and G52.175.3 cover Lashed Construction and Ring Construction, respectively, and outline certain changes that apply specifically to B Distribution Cables.

1.03 This cable has an outer jacket of neoprene and is available in 11-, 16-, and 26-pair sizes. Conductors are 22-gauge, coated copper, individually insulated with natural rubber or GR-S (Buna-S) compound. The following table gives the diameters and weights of these cables.

Number of Pairs	Outside Diameter (Inches)	Weight Per Ft. (Pounds)	Length Per Reel* (Feet)
11	.60	.19	500 (Min.) 4200 (Max.)
16	.67	.25	500 (Min.) 4200 (Max.)
26	.80	.36	500 (Min.) 4200 (Max.)

* The nominal length of cable per reel is 2500 feet.

1.04 Lengths of cable between 2500 feet and 4200 feet will be furnished one length per reel. Lengths of cable less than 2500 feet may be furnished with more than one length per

reel, but in no case will there be more than three lengths or a total length of more than 4200 feet per reel. Where more than one length of cable is furnished on a reel, the innermost cable will be designated "No. 1" and the remaining cables will be numbered consecutively outward. The outside of the reel will be marked or tagged to show the size of the cable and the length of each individual piece properly designated as to cable number.

1.05 Reels have 2-1/2-inch arbor holes. Maximum dimensions of cable reels are as follows:

Diameter (less lags)	66 inches
Over-all Width	36-1/4 inches

1.06 The special F-type cable terminals and BB-26 binding post chambers to be used with B Distribution Cable are provided with lead covered stubs having rubber insulated, 22-gauge copper conductors as in the B Distribution Cable.

1.07 Use the standard cable cutter to cut B Distribution Cable. Tape exposed ends of cables to prevent entrance of moisture.

2. CONNECTION WITH EXISTING CABLE PLANT

Among the various arrangements that may be employed at points of connection with existing cable plant are the following:

2.01 Splicing directly to lead covered cable.

2.02 Splicing to C Block Wire. The other end of the block wire is connected either to the assigned pairs in the existing terminal, or to the binding posts of the protector mounting where protection is required. In the latter case, the assigned pairs in the existing terminal are cross-connected to the protector mounting.

2.03 Placing a special F-type terminal, splicing the B Distribution Cable to the stub of the special F-type terminal, and cross-connecting to the assigned pairs in the existing terminal.

2.04 Placing a cable terminal box or a cable terminal to house the binding post chambers, cross-connections, and protector mountings (if required). Conditions under which the various housing arrangements might be employed are as follows:

(a) Where no protection is required and where not more than 26 incoming pairs and 26 outgoing pairs are to be terminated, use a BB-26 cable terminal box equipped with a special BB-26 binding post chamber for terminating the

B Distribution Cable, and a special B-26 binding post chamber for terminating the lead covered cable.

(b) Where no protection is required and where not more than 102 pairs are to be terminated, use a standard BD-102 cable terminal.

(c) Where protection is required and not more than 26 incoming pairs and 26 outgoing pairs are to be terminated, use an EA-26 cable terminal box equipped with 87A and 84A protector mountings, a special BB-26 binding post chamber for terminating the B Distribution Cable, and a special B-26 binding post chamber for terminating the lead covered cable. Both chambers are mounted in the space between the protector mountings and the left side of the cable terminal box.

3. SUSPENSION STRAND

3.01 Use 6M strand for supporting B Distribution Cable in aerial cable lines, unless otherwise specified on the detail plans.

3.02 The standard practices covering the placing, deadending, splicing, and tensioning of strand used in supporting lead covered cables also apply in the case of strand used in supporting B Distribution Cable, with the following exceptions:

(a) **Strand Continuity**

Where the continuity of the suspension strand is broken, bridge the gap with a bond consisting of a piece of No. 6 ground wire, or a piece of strand of the same size as the suspension strand. (See Part 4 of Section G52.125.2.)

(b) **Grade Clamps**

Omit grade clamps.

4. ELECTRICAL PROTECTION

4.01 Place protector mountings at locations specified in the detail plans. Where protection is required at a given terminal, **all** wires working out of that terminal should be equipped with protector blocks.

4.02 Install ground wire and connect to strand as shown in Section G32.130.

5. MECHANICAL PROTECTION

5.01 The recommendations contained in Section G52.140 pertaining to Mechanical Protection for lead covered cables also apply when B Distribution Cables are used.