

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

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CABLE SPLICING—GENERAL

STANDARD SUPPLIES

Contents	Page
1. General	1
2. List of Supplies	1

1. GENERAL

1.01 This section lists in alphabetical order the standard supplies generally used in cable splicing. This list is for the convenience of the splicer in checking the available materials and the quantities in which they can be obtained. Materials which have limited application are listed in the sections covering the operations in which they are used. The exact ordering information will be found in the supply catalogue.

1.02 **Reason for reissue:** This section has been reissued to bring the list of standard supplies up to date.

2. LIST OF SUPPLIES

2.01 The standard supplies are listed below.

<u>Item</u>	<u>Description and Use</u>
Anchor, Drive, Hammer:	1/4 in. x 1 in. For attaching cable clamps and straps to masonry.
Cap, Pipe, No. 2:	For capping 2-in. and 3-in. subsidiary pipes.
Cap, Pipe, No. 3:	
Cement, C:	Supplied in 4-ounce bottles with dauber. About one-half ounce needed per splice. ↴
Clamp, Cable:	Available in various sizes. For clamping cables and sleeves to masonry and wood.
Clamp, Ribbon, Bonding:	For attaching bonding ribbon to manhole walls.
Cloth, Wire, B:	Wire cloth 2 inches wide. Supplied in packages containing 20 pieces, 2 inches wide x 12 inches long. About 2 pieces needed per splice. ↴
	For making joints in alpeph sheath cable. ↴

<u>Item</u>	<u>Description and Use</u>
Cord, Rubber, Gum:	1/8 in. in diameter. Available in 50 ft. coils. For making wrapped joints gas tight.
Covering, Splice, B:	Supplied in pieces 20 in. x 24 in. For protecting temporary openings in cables.
Desiccant, B:	Available in 160 and 650 gram containers. For drying conductor insulation.
Disc, Splice, Multiple:	Available in various sizes. For maintaining separation between cables at multiple joints.
Form, Soldering, Cable:	Available in 7/8-in. and 1-1/2-in. sizes. For soldering bonding ribbon, valves, and flanges to lead sleeve or sheath.
Hook, Cable:	Available in 4-in., 7-1/2-in. and 10-in. lengths. For supporting cables in manholes.
Houseline:	Available in 1 lb. and 5 lb. balls and in 10 lb. coils. For supporting cables temporarily.
Muslin:	Supplied by the yard in 36-in. widths. Also available in a 2-in. width (4 to 6 yards long), and in a 4-in. width (7 to 10 yards long). The 36-in. width is used for wrapping splices and ventilating manholes. The 2 and 4-in. widths are used for wrapping splices.
Nails, Strap:	Available in sizes 3/16 in. x 1-1/2 in. and 3/16 in. x 2 in. For attaching cable clamps and straps to wood.
Oil, Splicing:	Available in 1, 5, 30 and 55 gal. containers. Used in a mixture with paraffin for boiling out cable conductors in cold weather. Also used in splicing pulp insulated cables.
Paint, Asphalt, No. 2:	Available in 1 pt., 1 qt., 1 gal., 5 gal. and 55 gal. containers. For painting taped openings and splices in buried cable.
Paraffin:	Available in 11 lb. and 20 lb. cakes. For boiling out splices, cotton tape, etc.
Pasters, Cable:	Available in rolls 1-in. and 2-in. wide in lengths of 60 ft. For limiting the width of wiped joints and soldered seams.
Ribbon, Bonding:	Supplied by the pound, approximately 17 ft. to the pound. For bonding cables.
Screw, Wood:	Available in 1-1/2-in. and 2-in. lengths. For attaching cable clamps and straps to wood surfaces.

<u>Item</u>	<u>Description and Use</u>
Sleeve, Lead:	Available in various lengths and diameters in regular strength and in extra strength. For permanent covering of splices and sheath openings in cables.
Sleeve, Copper, Tinned, No. 13-S:	For making soldered sleeve joints in cable conductors.
Sleeve, Copper, Tinned, No. 13-D:	
Sleeve, Copper, Tinned, No. 16:	
Sleeve, Cotton, Prepared:	Available in 3/32-in., 1/8-in., 5/32-in., 1/4-in. and 3/8-in. sizes, with single wall thickness in cartons containing 900, 700, 400, 200 and 100 sleeves, respectively. For covering wire joints in cable splices. Also available in 5/32-in. and 1/4-in. sizes, with double wall thickness in cartons containing 300 and 150 sleeves, respectively. For covering wire joints in toll cable splices.
Sleeving, Cotton:	Available in 1/8-in., 5/32-in., 1/4-in. and 5/8-in. sizes in 1 lb. spools. For protecting the core from the sheath at cable openings.
Solder, Rosin-Core:	Available in 1 lb. and 5 lb. spools. For soldering joints in cable conductors.
Solder, Sealing, B:	Supplied in 1/4 lb. sticks. For sealing pores in wiped joints.
Solder, Seam, C:	Available in 1/2 lb. and 1-1/2 lb. bars. For soldering seams in split sleeves.
Solder, Stearine-Core:	Supplied in 5 lb. spools. For repairs to cable sheath and for soldering joints in cable conductors.
Solder, Wiping, E:	Supplied in 5 lb. pigs. For wiping lead sleeve joints.
Stearine:	Available in 1/6 lb. pieces. For use in soldering to protect surfaces of lead sleeves and cable sheath from oxidation.
Strap, Sleeve, Adjustable:	For clamping large sleeves to walls.
Strap, Cable:	Available in various sizes. For clamping cables and splices to masonry and wood surfaces.

<u>Item</u>	<u>Description and Use</u>
Tag, Cable, Octagonal:	For tagging underground toll and trunk cables.
Tag, Cable, Round:	For tagging underground subscriber cables.
Tag, Cable, Strap:	For tagging large underground cables.
Tag, Terminal:	For tagging terminals and small underground cables.
Tag, Warning, B:	For tagging sleeves of cables under gas pressure.
Tag, Warning, C:	For tagging sleeves of cables containing coaxial pairs.
Tag, Warning, D:	For tagging sleeves of cables containing video pairs.
Tape, Aluminum, B:	Aluminum tape with adhesive on one side. ↙ Supplied in rolls 4 inches wide containing 20 linear feet. About 5 feet required per splice.
Tape, B:	For making joints in alpeh sheath cable. Neoprene tape with one tacky surface. Supplied in rolls 2 inches wide containing 15 linear feet. About one roll required per splice. When 1/2 or 1-inch strips are called for they can be cut from the 2-inch tape.
Tape, Cambric, Varnished:	For making joints in alpeh sheath cable. Supplied in rolls 1-1/2 in. wide and 25 ft. long. For insulating the butt at sheath openings in high dielectric strength cables. ↘
Tape, Cotton:	Available in 1/2-in. and 1-in. widths in 2 oz. and 4 oz. rolls, respectively. For protecting the core from the sheath at cable openings.
Tape, CR:	Available in 1-in., 2-in. and 28-in. widths in 20 ft. rolls. For use at temporary openings, insulating joints and for covering splices in buildings.
Tape, Electrical, Scotch:	Available in 3/8-in. and 1/2-in. widths in rolls of 10 yds. and 36 yds. For general splicing work.
Tape, Electrical, Scotch No. 27:	Glass cloth tape. Supplied in rolls 3/4-in. wide ↙ x 30 ft. long. For terminating tape armor and for insulating joints. ↘

<u>Item</u>	<u>Description and Use</u>
Tape, Friction:	Available in 3/4-in. width in 1/4 lb. and 1/2 lb. rolls and in 2-in. width in 1/2 lb. and 1 lb. rolls. For general splicing work.
Tape, Polyethylene, B:	Supplied in rolls 3 in. wide x 100 ft. long. For wrapping splices in high dielectric strength cable.
Tape, Rubber:	Available in 3/4-in. and 2-in. widths in 1/4 lb. and 1/2 lb. rolls respectively. For general splicing work.
Wedge, Lead:	Available in various sizes. For maintaining cable separation at Y joints.
Wire, Lashing, Copper:	Supplied in 1 lb. spools containing 128 ft. For making ties to support cable splices and for attaching cable tags.
Wire, Lashing, Lead:	Supplied in 1-1/2 lb. spools containing 90 ft. For making ties to support cable splices and for attaching cable tags.