

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G50.704.1
Issue 1, October, 1956
AT&T Co Standard

1A SPLICE CASE AND TA AND TB CABLE TERMINALS

DESCRIPTION OF CASES

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1. GENERAL

1.01 This section replaces Section G52.617.1 and describes the 1A Splice Case and the TA and TB Cable Terminals. These units are the initial series of the splice-case method of closing cable splices and are superseded by the 1B Splice Case and the TE and TF Cable Terminals. These units are used on straight splices or terminal splices on aerial cable up to and including 1.0-inch outside diameter. The case combinations available and the various parts, hardware, and tools required are listed in this section.

1.02 This section has been issued to cover the 1A Splice Case and the TA and TB Cable Terminals. With the addition of the 128A Adapter these units can be combined with the 1B Splice Case or the TE and TF Cable Terminals.

2. DESCRIPTION

2.01 The 1A Splice Case, the **protected** TA10 and TA16 Cable Terminals, and the **unprotected** TB10 and TB16 Cable Terminals are aluminum die castings. Two of the 1A Splice Cases can be combined to enclose a straight splice, and one 1A Splice Case closes the back of the TA or the TB terminal. The TA or TB Terminals can also be assembled back to back to make 20, 26, and 32 pair protected or unprotected terminals. The protected and unprotected (TA and TB) terminals are NOT combined at the same splice.

2.02 Each 1A Splice Case, TA, or TB Terminal is individually packaged in a carton for transportation and indoor storage; the carton is not weatherproof and should not be exposed unduly to the weather. Each of the two cartons used at an installation includes one-half of the small hardware and sealing material needed for a splice.

2.03 The sealing compound which is formed into a gasket between the two halves of the terminal or splice case is a special mixture of non-hardening materials which adheres to metal surfaces and to polyethylene. When applied in the manner covered in the section of practices dealing with the installation, the gasket forms a gas-tight and water-tight seal which is little affected by exposure outdoors.

2.04 The sealing compound for new installations comes in two forms as sealing tape and sealing cord. Half of the total needed for an installation is packaged in each splice case or terminal carton. The sealing cord and tape are wrapped in a specially prepared paper and protected by a cardboard container.

2.05 The sealing cord and tape should be kept dry and clean and should not be removed from the container until they are used.

2.06 For maintenance purposes a B Sealing Kit is provided. The kit is a package containing double the amount of sealing cord and sealing tape furnished with each splice case or terminal case carton.

3. LIST OF PARTS

3.01 The T Type Terminals may be combined in the following ways.

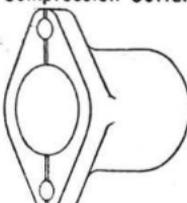
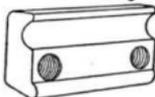
PROTECTED TERMINAL

Name	Main Parts Required		
	1A Splice Case	Protected Cable Terminal	
		TA 10	TA 16
10 Pair Terminal	1	1	-
16 Pair Terminal	1	-	1
20 Pair Terminal	-	2	-
26 Pair Terminal	-	1	1
32 Pair Terminal	-	-	2

UN-PROTECTED TERMINAL

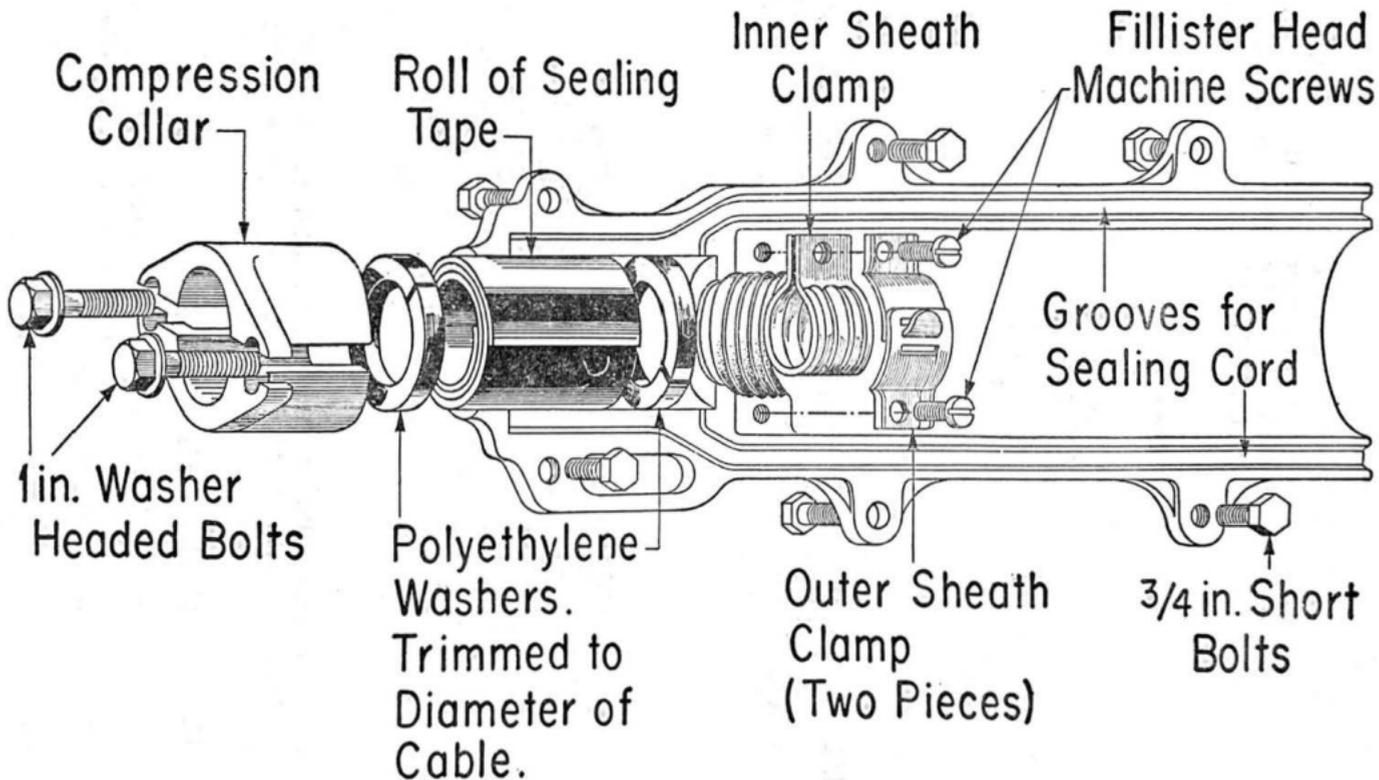
Name	Main Parts Required		
	1A Splice Case	Un-Protected Cable Terminal	
		TB 10	TB 16
10 Pair Terminal	1	1	-
16 Pair Terminal	1	-	1
20 Pair Terminal	-	2	-
26 Pair Terminal	-	1	1
32 Pair Terminal	-	-	2

3.02 The hardware and small parts for the 1A Splice Case and the TA or TB Terminal are listed in the following table. Half of the parts necessary for an installation including the sealing cord and tape come in each package.

PART	*	USED FOR
Inner Sheath Clamp 	PI3A191 Clamp	Slides under metal sheath tabs for clamping.
Two Piece Outer Sheath Clamp 	1- PI3A192 Clamp 2- PI3A193 Clamp	Placed over polyethylene sheath tabs. With inner clamps, forms mechanical and electrical bond between case and sheath.
Compression Collar 	PI3A190 Collars (2 required)	Two piece collar which compresses sealing tape between polyethylene washers to form end seal around cable.
Strand Lug 	PI3A189 Lug	Supports case from strand, 2 required.
1/8 in. Pipe Plug 	PI3A314 Plug	Pressure testing fitting
Short Bolt 1/4 in. - 20 x 3/4 in. Cap Screw 	RM630155 Cap Screw	12 bolts compress cases together.
Washer Headed Bolt 1/4 in. - 20 x 1 in. Cap Screw 	PI3A247 Cap Screw	4 required for compression collars, 4 required for strand clamps.
Machine Screw 10-32 x 1/2 in. Fillister Head 	RM170063 Screw	4 required for 2 sheath clamps

* This information should be used when ordering parts.

3.03 The following is an exploded view of one end of the splice case, showing the various parts used in the installation.



4. 128A ADAPTER

4.01 The 128A Adapter is a casting as illustrated below.

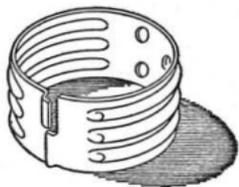
Two of these adapters are used with the 1A Splice Case or the TA or TB Terminal when any one of these units is combined with a 1B Splice Case or the TE or TF Terminal.

128A ADAPTER

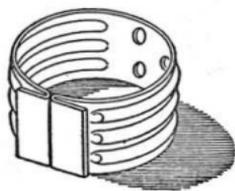


4.02 With the 128A Adapters two P18A727 Clamps, illustrated below are required on lead sheath cable; they are not necessary on alpeth or stalpeth cable if the original inner sheath clamps are left in place.

P-18A727 CLAMP



OLD



NEW

4.03 This combination of adapter and clamp replaces the inner sheath clamp and the two piece outer sheath clamp.

5. POLYETHYLENE WASHERS

5.01 Polyethylene washers used in the end seals are available in different sizes for each size of cable as covered in another section of the Practices.

6. TOOLS

6.01 The B Ratchet Wrench is used in the installation or removal of the splice case or terminal case. As illustrated below, the ratchet movement is arranged so that the wrench tightens a bolt when the side stamped $7/16$ faces outwards. A cord or leather thong may be fastened in the hole in the handle so that it will not slip through the workman's hands.

B RATCHET WRENCH

