

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G61.025.2
Issue 1, January, 1958
AT&T Co Standard

49A1 AND 49B1

CABLE TERMINALS

DESCRIPTION

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1. GENERAL

1.01 This section is issued to describe the 49A1 and the 49B1 Cable Terminals. These "Ready-Access" Terminals are for use on aerial polyethylene insulated conductor cables. The 49A1 is used on cables up to and including 1.0 inch O.D., the 49B1 is used on cables from 1.0 inch to 2.2 inch O.D. They replace the superseded 49A Cable Terminal covered in Section G61.025.1.

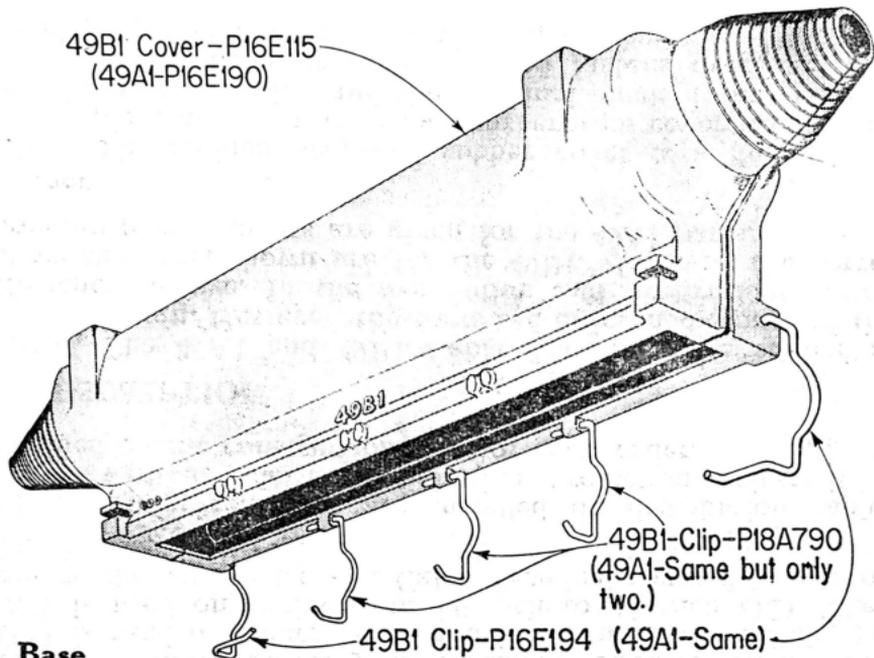
1.02 These terminals are installed on distribution cables without additional lightning protection unless it is specified on the construction print or work order.

2. DESCRIPTION

2.01 The 49A1 and 49B1 Cable Terminals are similar in design. However, the parts are different because of the difference in size. In the description and illustrations which follow the parts shown are for the 49B1. However, the corresponding part numbers are given for the 49A1 parts.

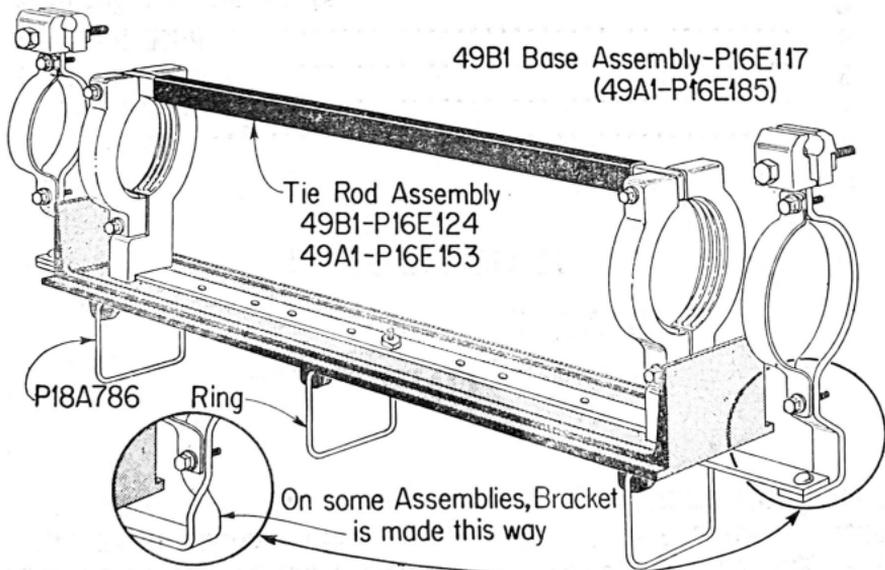
Cover

2.02 The molded neoprene rubber cover is a flexible one piece hood, serving as a weatherproof cover when fitted over the base assembly and the terminal block. It has tapered cable entrance holes at each end and fastens over the base assembly by means of shaped wire clips.



Base

2.03 The terminal base consists of a molded neoprene base, sandwiched between two metal strips. The neoprene base closes off the bottom of the terminal and provides 24 numbered entry points for drop wires. Three drop wire rings are fastened underneath.



2.04 Near each end of the base, a sheath clamp is fitted for fastening the terminal to the cable.

Front half, including machine screws packed in envelope.

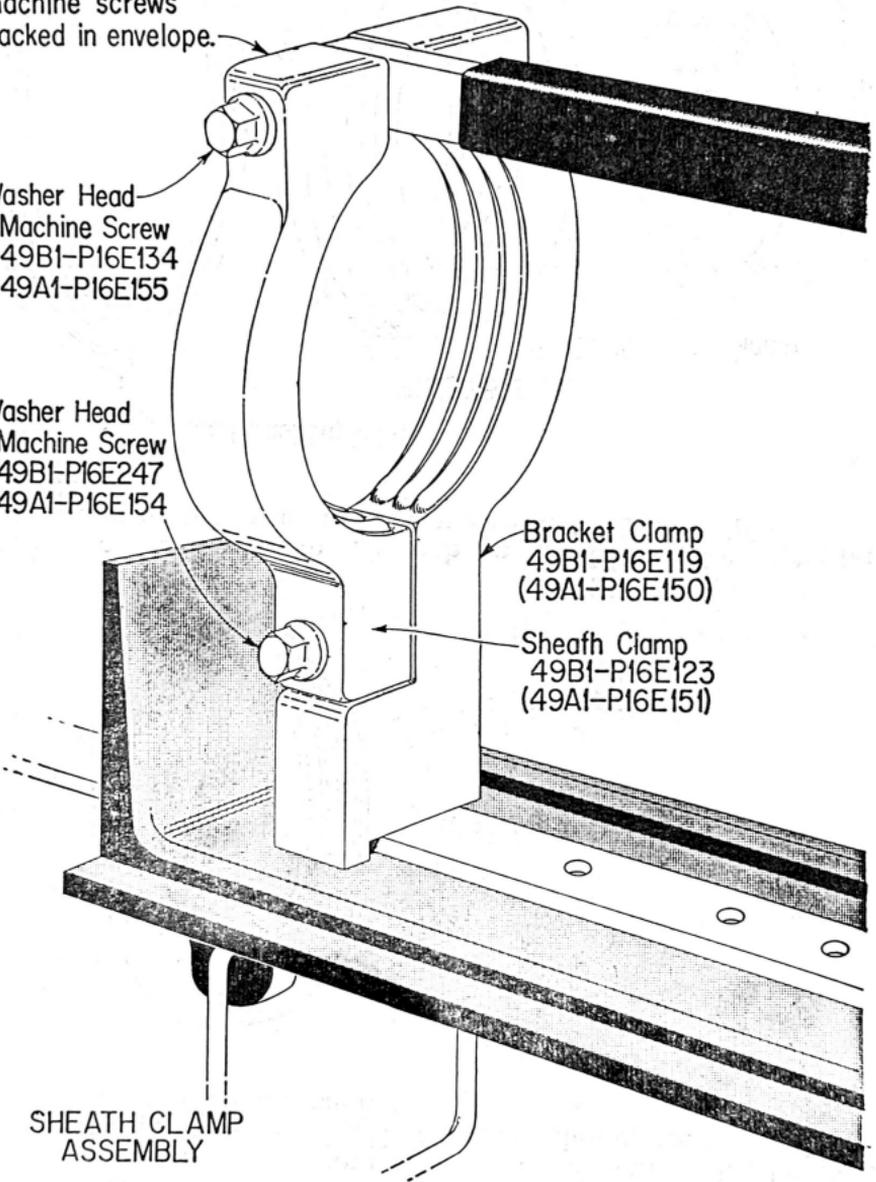
Washer Head
Machine Screw
49B1-P16E134
49A1-P16E155

Washer Head
Machine Screw
49B1-P16E247
49A1-P16E154

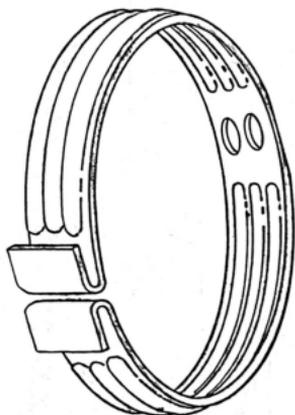
Bracket Clamp
49B1-P16E119
(49A1-P16E150)

Sheath Clamp
49B1-P16E123
(49A1-P16E151)

SHEATH CLAMP
ASSEMBLY

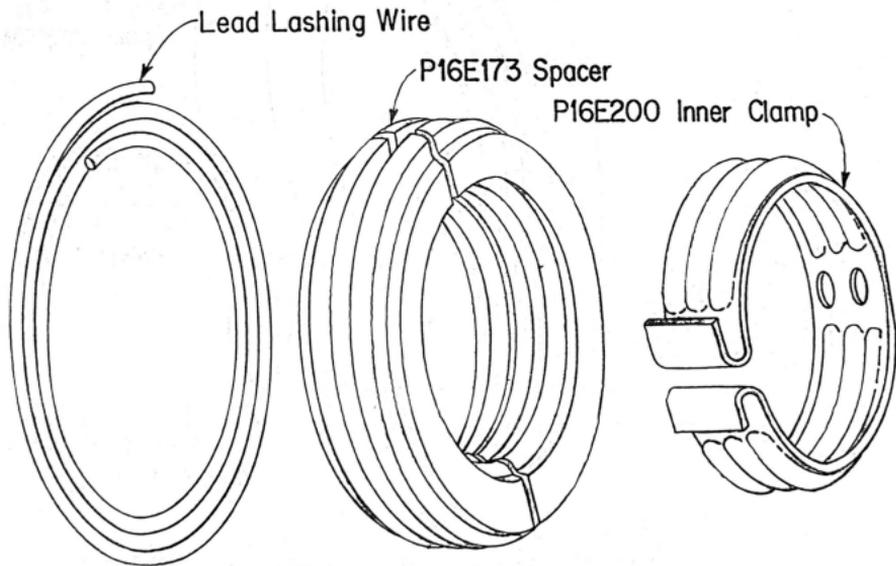


2.05 The 49B1 Cable Terminal has the P16E199 Inner Clamp supplied for each sheath clamp. This inner clamp is used for cables from 1.6 inch to 2.2 inch O.D. The 49A1 Cable Terminal has the P16E198 Inner Clamp, shown in Paragraph 2.07, supplied for each sheath clamp.



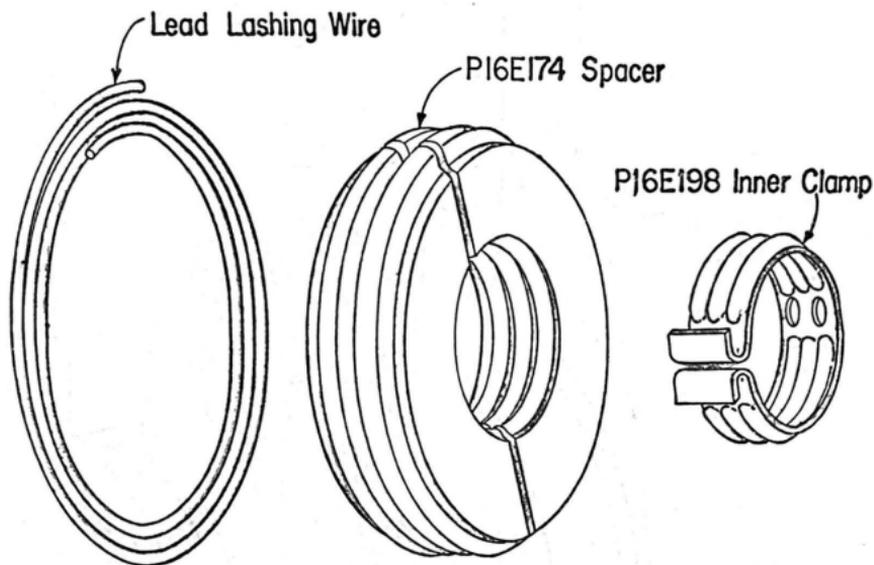
P16E199 Inner Clamp

2.06 For cables from 1.0 inch to 1.6 inch, 138A Adapter Assemblies are supplied with the 49B1 Terminal.



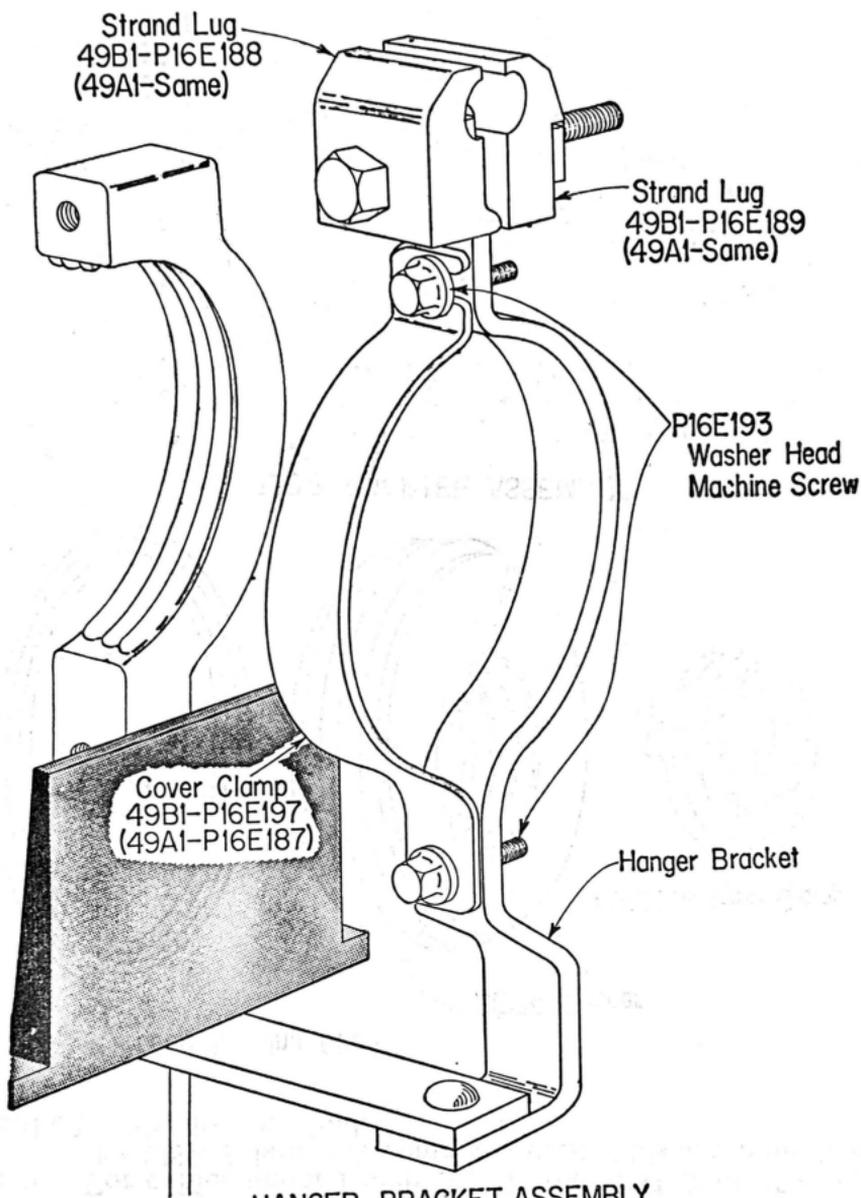
138A ADAPTER ASSEMBLY

2.07 For cables under 1 inch O.D. in the 49B1 Cable Terminal the 138B Adapter Assembly is used. This assembly is not supplied with the terminal.



138B ADAPTER ASSEMBLY

2.08 A hanger bracket is provided at each end of the base to support the terminal from the suspension strand. The strand lugs serve also as the electrical bonds between terminal, cable sheath, and strand.

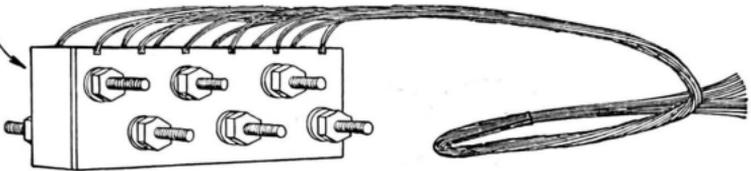


HANGER BRACKET ASSEMBLY

Terminal Block, P-18A782

2.09 The P-18A782 Terminal Block is a six-pair block, with three pairs on each side. Twin color coded leads are attached, as shown.

P-18A782 TERMINAL BLOCK

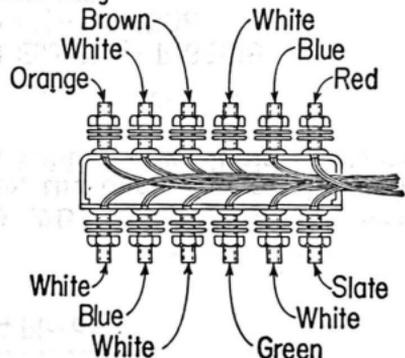
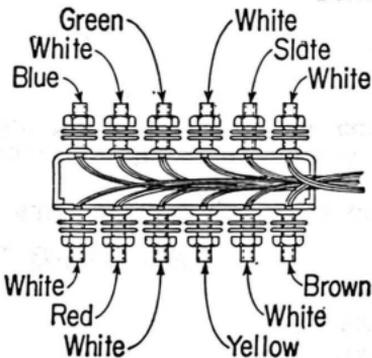


COLOR CODES OF TERMINAL BLOCK

OLD

Top Posts-Tip
Bottom Posts-Ring

NEW



2.10 Both the 49A1 and the 49B1 terminals will accommodate four P18A782 Terminal Blocks, a total of 24 pairs can be terminated.

3. SMALL PARTS

3.01 In addition to the inner clamps and the 138A Adapter assemblies for the 49B1 terminal previously described, lengths of sealing tape are included for making the drip collars.

P18A785 Sealing Tape



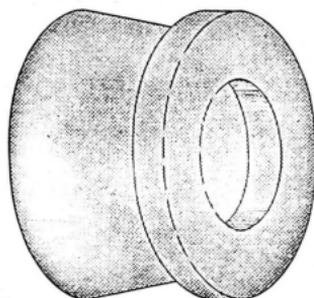
49 B1-8 Pieces

49A1-4 Pieces

4. DEAD END

4.01 When the 49A1 or the 49B1 Cable Terminals are used at the end of the cable, the open end of the neoprene cover is closed by means of a rubber plug. This is inserted in the tapered end of the cover.

49B1 End Plug - P16E518
(49A1 - P16E508)



5. REPLACEMENT PARTS

5.01 The following are replacement parts. This information may be used for ordering purposes when required.

Terminal		Name	Illustrated in Para.
49A1	49B1		
— — —	138A	Adapter Assembly	2.06
— — —	138B	Adapter Assembly	2.07
P16E185	P16E117	Base Assembly	2.03
P18A782	*	Terminal Block	2.09
P16E198	P16E199	Clamp, Inner	2.07 and 2.05
— — —	P16E200	Clamp, Inner	2.06
P16E187	P16E197	Clamp, Cover	2.08
P16E151	P16E123	Clamp, Sheath	2.04
P16E150	P16E119	Clamp Bracket	2.04
P18A790	*	Clip	2.02
P16E194	*	Clip	2.02
P16E190	P16E115	Cover	2.02
P18A786	*	Ring	2.03
P16E153	P16E124	Tie Rod Assembly	2.03
P16E191	*	Screw, Washer Hd. Mach. (Clamp Base)	Not Shown
P16E193	*	Screw, Washer Hd. Mach. (Clamp Sides)	2.08
P16E155	P16E134	Screw, Washer Hd. Mach.	2.04
P16E154	P16E247	Screw, Washer Hd. Mach.	2.04
P16E188	*	Lug, Strand	2.08
P16E189	*	Lug, Strand	2.08
P18A785	*	Tape	3.01
P16E508	P16E518	Plug	4.01

* Uses same part as shown under 49A1 Terminal