

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G61.170.5
Issue 1, February, 1958
AT&T Co Standard

MARKING MAIN FRAMES
198 TYPE TERMINAL STRIPS

Contents	Page
1. General	1
2. Description and Ordering Information	1
3. Marking Terminations	5
4. Placing Designation Strips	9
5. Maintenance	9

1. GENERAL

1.01 This section covers the designation of cable and pair numbers on four point 198 type terminal strips on main frames using adhesive tape strips.

2. DESCRIPTION AND ORDERING INFORMATION

2.01 The adhesive tape strips with printed numbers are mounted on pasteboard cards. The cards are scored to permit the tape to be readily removed.

Pair Designation Strips

2.02 E-4587 Pair Designation Strips are made in groups each containing three strips of numbers which will mark the even numbered pairs or the odd numbered pairs in a 300 pair cable. The designation strips are 7/16 inch wide except for

those in Group P which are 11/32-inch wide. Printed numerals are black on a white tape. The available groups, one strip from Group A, one strip from Group B and complete three strip cards showing all of the numbers in Group A and in Group P are illustrated below.

GROUP A		
2	102	202
6	106	206
↑	↑	↑
Steps of 4	Steps of 4	Steps of 4
↓	↓	↓
94	194	294
98	198	298
X1	X2	X3

GROUP B		
1	101	201
5	105	205
↑	↑	↑
Steps of 4	Steps of 4	Steps of 4
↓	↓	↓
93	193	293
97	197	297
X1	X2	X3

GROUP C		
302	402	502
306	406	506
↑	↑	↑
Steps of 4	Steps of 4	Steps of 4
↓	↓	↓
394	494	594
398	498	598
X4	X5	X6

GROUP D		
301	401	501
305	405	505
↑	↑	↑
Steps of 4	Steps of 4	Steps of 4
↓	↓	↓
393	493	593
397	497	597
X4	X5	X6

GROUP E		
602	702	802
606	706	806
↑	↑	↑
Steps of 4	Steps of 4	Steps of 4
↓	↓	↓
698	798	898
X7	X8	X9

GROUP F		
601	701	801
605	705	805
↑	↑	↑
Steps of 4	Steps of 4	Steps of 4
↓	↓	↓
697	797	897
X7	X8	X9

GROUP G		
902	1002	1102
906	1006	1106
↑	↑	↑
Steps of 4	Steps of 4	Steps of 4
↓	↓	↓
698	798	898
X10	X11	X12

GROUP H		
901	1001	1101
905	1005	1105
↑	↑	↑
Steps of 4	Steps of 4	Steps of 4
↓	↓	↓
697	797	897
X10	X11	X12

GROUP J		
1202	1302	1402
1206	1306	1406
↑ Steps of 4 ↓	↑ Steps of 4 ↓	↑ Steps of 4 ↓
1298	1398	1498
X13	X14	X15

GROUP K		
1201	1301	1401
1205	1305	1405
↑ Steps of 4 ↓	↑ Steps of 4 ↓	↑ Steps of 4 ↓
1297	1397	1497
X13	X14	X15

GROUP L		
1501	1601	1701
1505	1605	1705
↑ Steps of 4 ↓	↑ Steps of 4 ↓	↑ Steps of 4 ↓
1597	1697	1797
X16	X17	X18

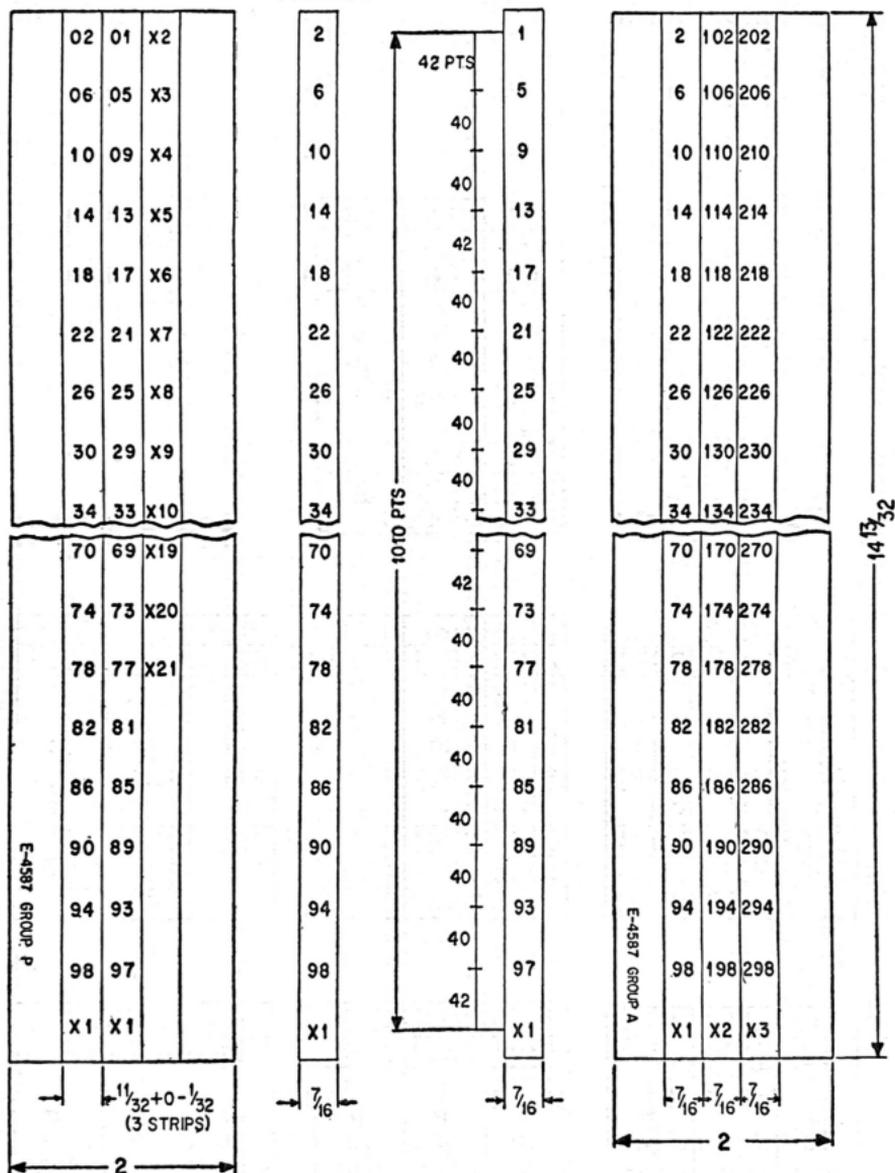
GROUP M		
1502	1602	1702
1506	1606	1706
↑ Steps of 4 ↓	↑ Steps of 4 ↓	↑ Steps of 4 ↓
1598	1698	1798
X16	X17	X18

GROUP N		
1801	1901	2001
1805	1905	2005
↑ Steps of 4 ↓	↑ Steps of 4 ↓	↑ Steps of 4 ↓
1897	1997	2097
X19	X20	X21

GROUP O		
1802	1902	2002
1806	1906	2006
↑ Steps of 4 ↓	↑ Steps of 4 ↓	↑ Steps of 4 ↓
1898	1998	2098
X19	X20	X21

GROUP P		
02	01	X2
06	05	X3
↑ Steps of 4 ↓	↑ Steps of 4 ↓	↑ Steps of 1 ↓
94	93	X20
98	97	X21
X1	X1	

GROUP P GROUP A GROUP B GROUP A

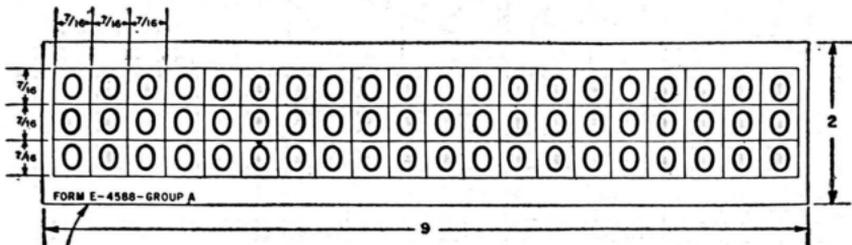


2.03 The standard listing for the E-4587 Pair Designation Strips is:

(Quantity) Cards, Form E-4587 Group (such as A).

Cable Designation Strips

2.04 E-4588 Cable Designation numbers are mounted on cards each card containing 60 like numbers (0, 1, 2, 3, 4, 5, 6, 7, 8, or 9). Printed numerals are red on a white tape. The numbers, 7/16-inch wide, fit on the front of 198 type terminal strips as illustrated in Paragraph 3.04. Each number has a group designation. The available groups and a complete three strip card of Group A are illustrated below.



<u>GROUP</u>	<u>DIGIT</u>	<u>FORM NO.</u>
A	0	E-4588A
B	1	E-4588B
C	2	E-4588C
D	3	E-4588D
E	4	E-4588E
F	5	E-4588F
G	6	E-4588G
H	7	E-4588H
J	8	E-4588J
K	9	E-4588K

2.05 The standard listing for the E-4588 Cable Designation Strips is:

(Quantity) Cards, Form, E-4588, Group (such as A).

3. MARKING TERMINATIONS

Pair Numbers

3.01 Even or odd numbered pairs may be terminated on the rear terminals. Designate the following pairs on the fanning strips:

- Every fourth even numbered pair beginning with 2, 102, 202, etc., or
- Every fourth odd numbered pair beginning with 1, 101, 201, etc.

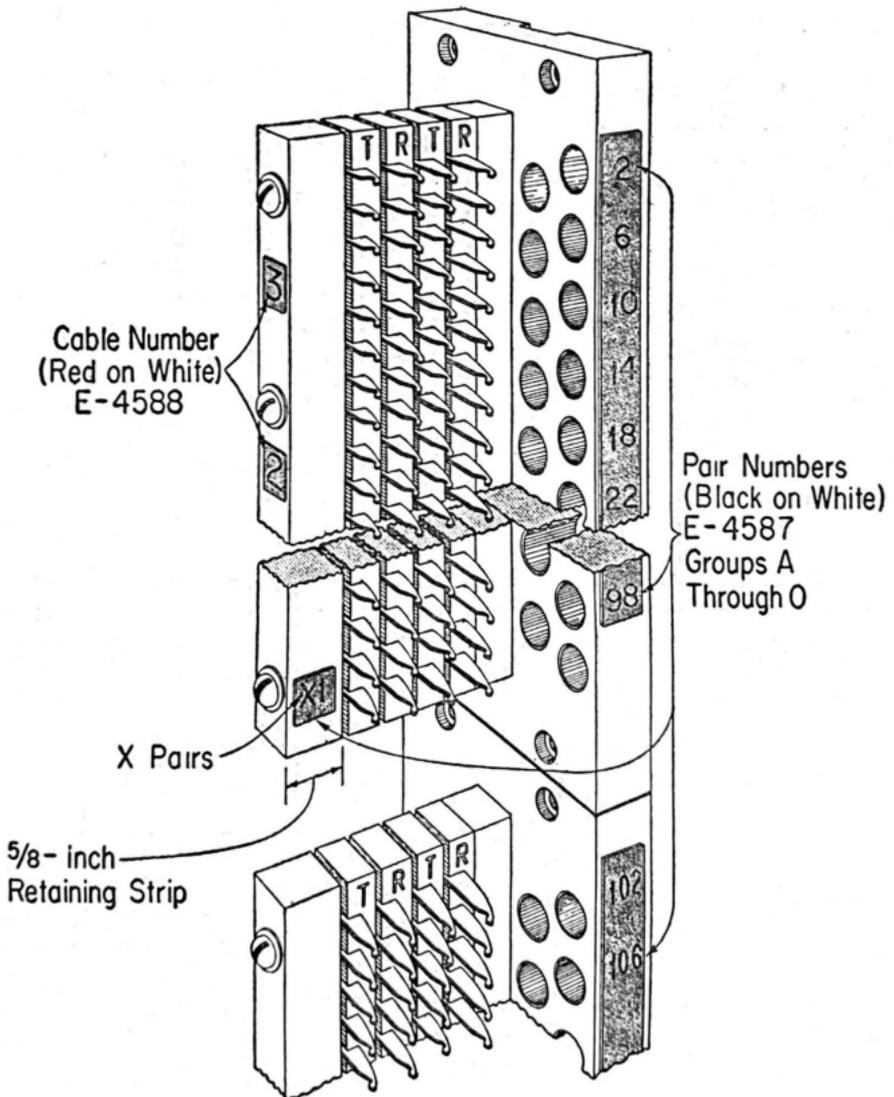
3.02 All X pairs shall be designated.

Cable Numbers

3.03 Designate cable number on each vertical near the top of the first group of pair terminations in the cable. The numbers shall be placed on the face of the clamping strip between the retaining screws.

3.04 The preferred method of marking cable and pair numbers is illustrated below.

198 TYPE BLOCK

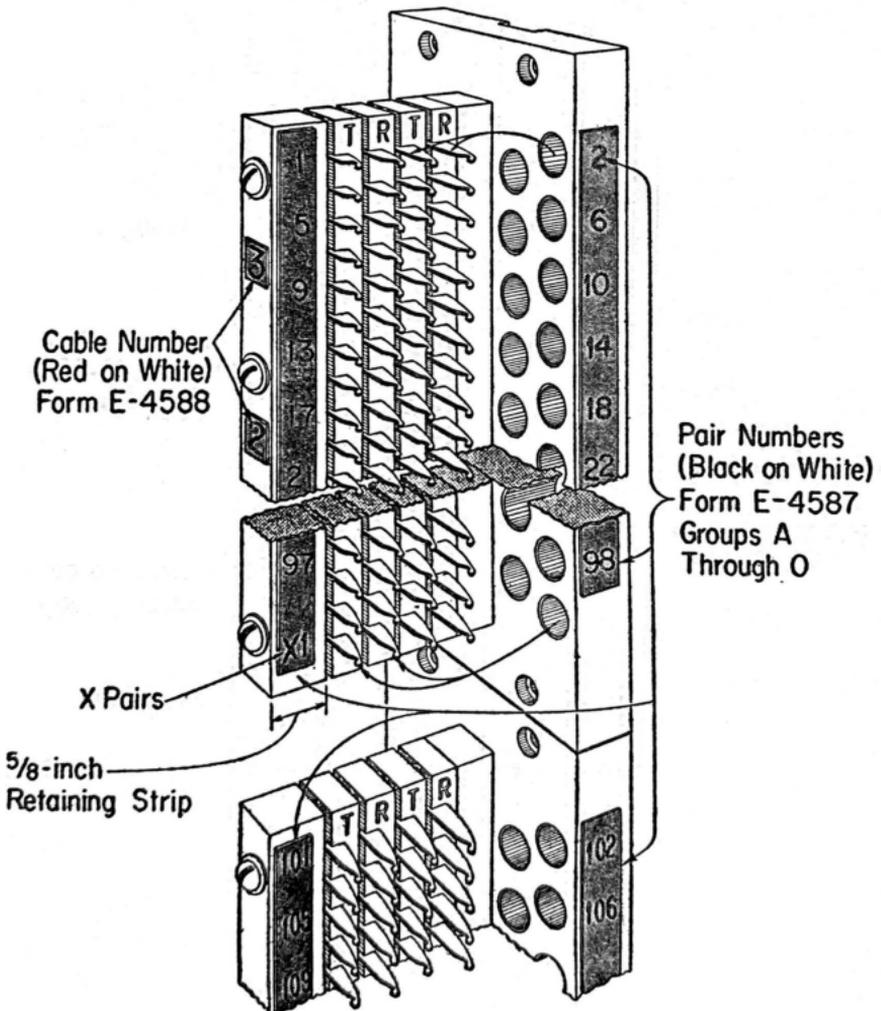


3.05 Pairs on the front terminals may also be designated, if desired, as illustrated below:

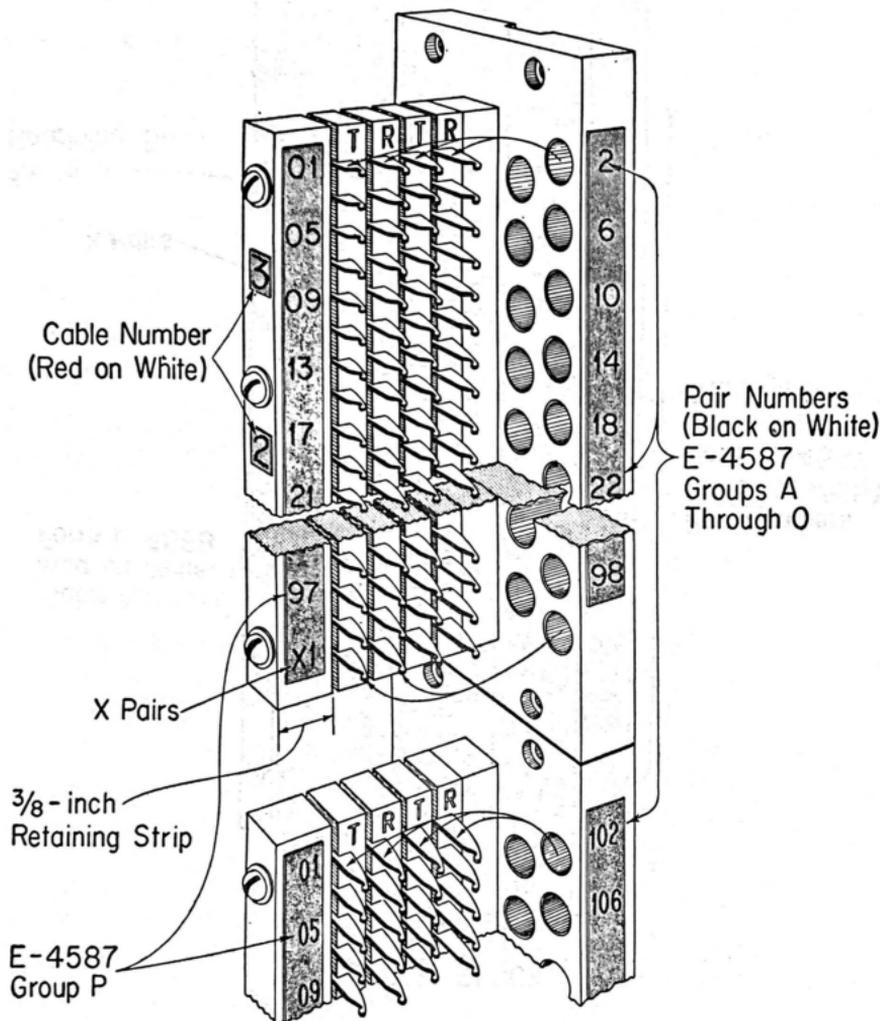
Notes:

- (a) E-4587, Groups A through O are for use on all fanning strips and on 5/8-inch wide retaining strips. On these retaining strips the full pair numbers will be marked.
- (b) E-4587, Group P is for use on 3/8-inch wide retaining strips. On these strips only the last two digits will be marked.

198 TYPE BLOCK



198 TYPE BLOCK



3.06 It may be necessary to cut several strips in order to designate the desired pairs. As an example, if Group A, column 1 is used, as illustrated in the first sketch in Paragraph 3.04, the "X1" should be cut from the designation strip used on the fanning strip and placed on the retaining strip as shown.

3.07 As illustrated in the preceding sketches the preferred method of counting pairs on 198 type terminal strips is from front to back the lower numbered pair being on the front terminals and the higher numbered pair on the rear terminals.

4. PLACING DESIGNATION STRIPS

Pair Number Strips

4.01 Separate the three strips by folding on the cut lines shown on the face of the card. Discard the advertising strips on the sides of the card.

4.02 Reverse the strip and fold at the line located 1" from the top. This should break the pasteboard backing.

4.03 Hold the long strip in the left hand and push the 1" bent piece away from the left hand to partially expose the adhesive but do not completely remove the short piece of pasteboard. Hold on to the unremoved portion of the short strip and similarly remove a sufficient length of the pasteboard from the long end in order to grasp the pasteboard with the fingers and remove about 5" to 6" of the pasteboard backing. Remove the remainder of the pasteboard backing from the short end. Place the adhesive strip on the retaining or fanning strip so that the pair number is centered on, or slightly above, the terminal or center of the hole in the fanning strip. Touch the adhesive as little as possible as this affects its sticking quality. Fold back the pasteboard, guide the adhesive strip on the fanning strip and gradually remove the pasteboard backing.

CAUTION

1. Exposure to air dries out the adhesive and makes it ineffective.
2. Care shall be taken to avoid touching the adhesive, particularly with soiled hands.
3. Pulling off the pasteboard backing will stretch the strip. It is desirable to remove about one-half the length of the pasteboard at a time and place that part of the adhesive tape in position before removing more pasteboard backing.

4.04 It may be desirable to use a small roller, similar to that used for flattening seams in wall paper, to roll the adhesive strips after they are placed. In addition small tweezers can be used to prevent the hands coming in contact with the adhesive. These items should be purchased locally.

5. MAINTENANCE

5.01 To renumber a terminal strip pull off the adhesive tape and replace with one having the correct pair numbers.