CONNECTING BLOCKS, 66-TYPE

NUMBERING AND WIRING PLAN

1. GENERAL

1.01 This section contains information on numbering and wiring of 66-type connecting blocks installed in 115-type apparatus boxes.

1.02 This section is reissued to:

- Add 66M1-25 connecting block
- Add information on transfer stenciling kit for marking terminals of connecting blocks
- Show F-57000 and F-57001 connecting blocks replaced by 66B4-25C and 66B3-50C, respectively. 66B4-25C can also be used in place of F-56999 connecting block
- Change Fig. 1, 2, and 3 to show new location (inside apparatus boxes) of cable clamps.

2. NUMBERING

66-Type General Purpose Connecting Blocks

2.01 The connecting block numbering plan is dependent upon the blocks being wall mounted with the long side vertical. The first terminal in the upper left hand corner is designated 1A (Fig. 1, 2, and 3).

 2.02 Numbering plans for various general purpose connecting blocks are shown in Fig. 4 through
 9.

Note: The symbols in these figures illustrate the number of connectors and terminals on each connector in a horizontal row, ie, 0000 indicates one connector with four terminals; 0000 indicates two connectors with two terminals each, etc.

2.03 When marking these connecting blocks and fanning strips for terminal identification, use the transfer stenciling kit to stamp and identify the terminals. Refer to Section 081-860-105 for stenciling procedures.



Fig. 1—66B4-25 Connecting Block Mounted in a 115A1 or 115C1 Apparatus Box (Cover Removed) Incoming Cable Dead Ended

3. WIRING PLANS

Incoming Cable (Feed or Apparatus Cable)

3.01 Terminate an incoming cable which does not loop to another block or location (Fig. 1) as follows:

- (1) Place conductors through fanning strip and terminate in normal terminating sequence.
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Fig. 2—66B4-25 Connecting Block Mounted in a 115A1 or 115C1 Apparatus Box (Cover Removed) Incoming Cable Looped Through

Refer to Fig. 4 through 9 for the particular block used.

(2) Work excess slack toward loose end of incoming cable as terminating progresses.

3 02 Terminate an incoming cable which will loop to another terminal or location (Fig. 2) as follows:

- (1) Loop conductors through fanning strip and connector terminal in normal terminating sequence. Refer to Fig. 4 through 9 for the particular block used.
- (2) Dress conductors into space beside connecting block while taking up slack toward loose end of cable.

ABCD E P-17E628 CONNECTOR ROW NUMBER I THRU 50 DISTRIBUTING RING (115D) ONLY) INCOMING CONTINUING ON TO ANOTHER CUTOUT FOR OUTGOING STATIC CABLE OR WIRE STATION I OCATION

Fig. 3—Two 66B4-25 Connecting Blocks Mounted in a 115B1 or 115D1 Apparatus Box (Cover Removed) Incoming Cable Looped Through

(3) Tape exposed conductors if cable sheath on loose end does not extend into terminal box.

(4) Fasten incoming cable at location shown in Fig. 1, 2, and 3 using appropriate cable clamps.

3.03 Terminate an incoming cable which will loop through two connecting blocks in a terminal or apparatus box (Fig. 3) and continue on to another location as follows:

- (1) Terminate cable on first block as shown in 3.02.
- (2) Tape exposed conductors where they pass between blocks.
- (3) Repeat 3.02 for the second block.

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COLUMN ASSIGNMENT AND TERMINATING SEQUENCE

	CONNECTOR	POSITION
	C D E F	A B C D E F
CABLE OR STATION WIRE	COLUMNS *	COLUMNS +
INCOMING (FEED)	A	F
IST OUTGOING (STATION)	F	A
2ND OUTGOING (STATION)	E	В
3RD OUTGOING (STATION)	D	С
4TH OUTGOING (STATION)	c	D
5TH OUTGOING (STATION)	в	E
* FAN INCOMING CONDUCTOR	S IN FROM LEFT.	OUTGOING FROM RIGHT

T FAN INCOMING CONDUCTORS IN FROM RIGHT, OUTGOING FROM LEFT.

Fig. 4—Numbering and Wiring Plan for 66A1-25 (MD), 66A2-25 (MD), 66A2-50 (MD), 66B1-25 (MD), 66B4-25, and 66B4-25C Connecting Blocks

Outgoing Cables (Station Wire and Cable)

3.04 Terminate outgoing station wire or cable (Fig. 1 and 2) in a 115A1 or 115C1 apparatus box as follows:

- Place distributing ring at opposite end of box from which cable will leave box.
- (2) Remove cable sheath for approximately twice the length of connecting block, allowing for sheath end to extend inside housing.
- (3)
 Fasten outgoing cable at location shown in Fig. 1, 2, and 3 using appropriate cable clamps.



COLUMN ASSIGNMENT AND TERMINATING SEQUENCE

CONNECTOR POSITION

	M	R M	Î		
CABLE ON STATION WIRE		COLUMNS *		COLUMNS	+
COMING (FEED)		A		F	
ST OUTGOING (STATIC	N)	в		Ε	
ND OUTGOING (STATIC	(N	С		D	

T FAN INCOMING AND OUTGOING CONDUCTORS IN FROM RIGHT

Fig. 5—Numbering and Wiring Plan for 66B3-50 and 66B3-50C Connecting Blocks

(4) Pass conductors over distributing ring.

(5) Place conductors through fanning strip and terminate in normal terminating sequence. Refer to Fig. 4 through 9 for the particular block used.

(6) Repeat steps (2) through (5) for all other outgoing cables.

3.05 The 66B4-25C and 66B3-50C connecting blocks are factory-wired so that the wiring sequence is in the proper order when the cable stub and plug are at the top (Table A).

3.06 ♦The 66B4-25C is furnished with a single 12-inch cable stub and plug, and the 66B3-50C has two 12-inch cable stubs and plugs.♦

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SEE FIG. 5 FOR WIRING PLAN FOR ROWS I THROUGH 24. FIG. 4 FOR ROWS 25 THROUGH 50.

Fig. 6—Numbering and Wiring Plan for 6685-37 Connecting Blocks

Wiring Plan 66E3-25 and 66E4-25 Connecting Blocks

- **3.07** Connect a raw-ended cable to the 66E3-25 and 66E4-25 connecting blocks as follows:
 - Remove cable sheath approximately twice the length of terminal block. Allow sheath to extend inside connecting block housing.
 - (2) Fasten cable at entrance point with appropriate fastener.
 - (3) Untwist cable so that groups of conductors are lying straight.



COLUMN ASSIGNMENT AND TERMINATING SEQUENCE

	CONNECTOR POSITION			
		RRRI		
CABLE OR STATION WIRE	COLUMNS *	COLUMNS T		
NCOMING (FEED)	A	D		
ST OUTGOING (STATION)	0	А		
2ND OUTGOING (STATION)	с	в		
BRD OUTGOING (STATION)	B	С		
FAN INCOMING CONDUCTORS	IN FROM LEFT, OUTGO	ING FROM RIGHT.		

T FAN INCOMING CONDUCTORS IN FROM RIGHT OUTGOING FROM LEFT.

Fig. 7—Numbering and Wiring Plan for 66C1-16, 66C2-16, and 66C2-32 Connecting Blocks

- (4) Pass conductors over distributing ring (in 66E3-25 only).
- (5) Place conductors into both fanning strip and hook portion of terminals.
- (6) Terminate the first 25-pair cable on rows 1, 3, 5, 7, and 9 (Fig. 10). When multiple connections are required, a second 25-pair cable may be connected by following steps (1) through (5) and terminating on rows 2, 4, 6, 8, and 10.
- 3.08 Conductor terminating sequence of factory internal wiring is shown in Table B.

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Fig. 8—Numbering and Wiring Plan for 66M1-25 Connecting Blocks



Fig. 9—Numbering and Wiring Plan for 66M1-50 Connecting Blocks

♦ TABLE A ♦

FACTORY WIRING 66A1-25 (MD), 66B3-50C AND 66B4-25C CONNECTING BLOCKS

AMP	CONNECTING CABLE		CONNECTING BLOCK TERMINAL*			
TERM.			66R4 250	66B3	3-50C	
NO.	PAIR	COLOR	66B3-50C	LEFT CABLE	RIGHT CABLE	
26	1	W-BL	1A	1A	1F	
1	1	BL-W	2A	2A	2F	
27	0	W-O	3A	3A	3F	
2	2	O-W	4A	4A	4F	
28	2	W-G	5A	5A	5F	
3	3	G-W	6A	6A	6F	
29	4	W-BR	7A	7A	7F	
4	4	BR-W	8A	8A	8F	
30	-	W-S	9A	9A	9F	
5	Ð	S-W	10A	10A	10F	
31	C	R-BL	11A	11A	11F	
6	0	BL-R	12A	12A	12F	
32	7	R-O	13A	13A	13F	
7		O-R	14A	14A	14F	
33	0	R-G	15A	15A	15F	
8	8	G-R	16A	16A	16F	
34	0	R-BR	17A	17A	17F	
9	9	BR-R	18A	18A	18F	
35	10	R-S	19A	19A	19F	
10	10	S-R	20A	20A	20F	
36		BK-BL	21A	21A	21F	
11	11	BL-BK	22A	22A	22F	
37		BK-O	23A	23A	23F	
12	12	O-BK	24A	24A	24F	
38		BK-G	25A	25A	25F	
13	13	G-BK	26A	26A	26F	
39		BK-BR	27A	27A	27F	
14	14	BR-BK	28A	28A	28F	
40		BK-S	29A	29A	29F	
15	15	S-BK	30A	30A	30F	
41	10	Y-BL	31A	31A	31F	
16	16	BL-Y	32A	32A	32F	
42		Y-O	33A	33A	33F	
17	17	O-Y	34A	34A	34F	
43	10	Y-G	35A	35A	35F	
18	18	G-Y	36A	36A	36F	
44	10	Y-BR	37A	37A	37F	
19	19	BR-Y	38A	38A	38F	
45		Y-S	39A	39A	39F	
20	20	S-Y	40A	40A	40F	
46		V-BL	41A	41A	41F	
21	21	BL-V	42A	42A	42F	
47		V-0	43A	43A	43F	
22 22	22	0-V	44A	44A	44F	
48		V-G	45A	45A	45F	
2.3	23	G-V	46A	46A	46F	
49		V-BR	47.4	47A	47F	
2.4	24	BR-V	48.4	48A	48F	
50		V-S	49A	49A	49F	
25	25	S-V	50A	50A	50F	

*Connecting blocks are intended to mount with the cable stub and plug at the top.

TABLE B

FACTORY INTERNAL WIRING 66E3-25 AND 66E4-25 CONNECTING BLOCKS

AMP	CONNEC	CONNECTOR		
TERM. NO.	PAIR COLOR		TERM.	
26	1	W-6L	1	
í	1	BL-W	2	
27	0	W-O	3	
2	2	O-W	4	
28	2	W-G	5	
3	0	G-W	6	
29	4	W-BR	7	
4	4	BR-W	8	
30	5	W-S	9	
5	J	S-W	10	
31	e	R-BL	11	
6	U	BL-R	12	
32	7	R-O	13	
7	'	O-R	14	
33	3	R-G	15	
8	0	G-R	16	
34	9	R-BR	17	
9		BR-R	18	
35	10	R-S	19	
10		S-R	20	
36	11	BK-BL	21	
11		BL-BK	22	
37	12	BK-O	23	
12		O-BK	24	
10	13	BK-G	25	
20		DV DD	20	
14	14	DR-DR	21	
40		BK-S	20	
15	15	S-BK	30	
41		Y-BL	31	
16	16	BL-Y	32	
42	1.0	Y-0	33	
17	11	O-Y	34	
43	10	Y-G	35	
18	10	G-Y	36	
44	10	Y-BR	37	
19	19	BR-Y	38	
45	20	Y-S	39	
20	20	S-Y	40	
46	21	V-BL	41	
21		BL-V	42	
47	22	V-0	43	
22		0-V	44	
48	23	V-G	45	
23		G-V	46	
49	24	V-BR	47	
24		BR-V	48	
90	25	V-5	49	



NUMBERS IN PARENTHESES INDICATE INTERNAL CONNECTIONS TO P-46D832 CONNECTOR ASSEMBLY

