

1A1 KEY TELEPHONE SYSTEM

TIE AND STATION LINES

203A AUTOMATIC TIE LINE UNIT

204A RINGDOWN TIE LINE UNIT

205A STATION LINE UNIT

TERMINATIONS IN APPARATUS CABINET

1.00 GENERAL

1.01 This section covers connections at the apparatus cabinet for tie and/or station lines. This includes strapping between key telephone units, terminating of lines from feeder terminals, and terminating of key or running cables from key telephone stations.

1.02 Connections for power leads and power strapping for 203A, 204A, and 205A key telephone

units are covered in Section C71.383, 1A1 Key Telephone System, Power Wiring.

2.00 REFERENCES

2.01 Reference information for this section is given in Section C71.355, 1A1 Key Telephone System, Connection Data, Description and Use.

Incoming Lines from Feeder Terminals

TABLE 93.01

Line No. in System	Lead Desig	Incoming Cable			Running Cable			203A, 204A, 205A Terminal
		Pair No.	C Type	D Type	Pair No.	C Type	D Type	
			Color			Color		
1	R	1	BL	BL	46	BL-W	BL-W	2
	T		W	W		BK	V	1
2	R	2	O	O	47	BL-O	O-W	2
	T		W	W		BK	V	1
3	R	3	G	G	48	BL-G	G-W	2
	T		W	W		BK	V	1
4	R	4	BR	BR	49	BL-BR	BR-W	2
	T		W	W		BK	V	1
5	R	5	S	S	50	BL-S	S-W	2
	T		W	W		BK	V	1
6	R	6	BL-W	BL	51	R	R	2
	T		W	R		W	W	1

SECTION C71.393

TABLE 93.02

Strapping:

- 209A System Flashing and Time-out Unit
- 212A Combined System Flashing, Time-out, and Central Office or PBX Line Unit
- 203A and 204A Tie Line Units
- 205A Station Line Unit
- 211A and 16A Audible Signal Control Units

Common Strapping

Lead Desig	209A(A, B)	212A(A, B, C)	203A	204A	205A	211A	16A
	Terminal						
TO	(A)5	(A)17	21				
CO	(A)6	(A)18	22				
TO	(A)8	(A)17		21			
CO	(A)7	(A)18		22			
LK	(A)9	(B)20		24			
TO	(A)10	(A)17			21		
CO	(A)11	(A)18			22		
R			23	23	23	2, 4, 6	9
RR			27	27	27	3, 5, 7	7

Individual Line Strapping

Line No. in System	Lead Desig	209A(A, B)	212A(A, B, C)	203A, 204A, 205A
		Terminal		
1	LF	(A)21		25
	LB	(A)22		26
2	LF	(A)23		25
	LB	(A)24		26
3	LF	(A)25		25
	LB	(A)26		26
4	LF	(A)27	(B)17	25
	LB	(A)28	(B)18	26
5	LF	(A)29	(B)27	25
	LB	(A)30	(B)28	26
6	LF	(A)19	(B)37	25
	LB	(A)20	(B)38	26

Key or Running Cable to 203A,
204A, or 205A Line Unit

TABLE 93.03

Line No. in System or Tie Line Pickup Key Position	Lead Desig	Key or Running Cable			203A, 204A, 205A	204A, 205A
		Pair No.	C Type	D Type		
			Color		Terminal	
1	R T	1	BL W	BL W	4, 11, 12 3, 9, 10	
	G S	2	O W	O W		40 13, 14
	L LG	16	G-BR W	BL Y	17, 18, 28 19, 20, 29	
2	R T	3	G W	G W	4, 11, 12 3, 9, 10	
	G S	4	BR W	BR W		40 13, 14
	L LG	17	G-S W	O Y	17, 18, 28 19, 20, 29	
3	R T	5	S W	S W	4, 11, 12 3, 9, 10	
	G S	6	BL-W W	BL R		40 13, 14
	L LG	18	BR-W W	G Y	17, 18, 28 19, 20, 29	
4	R T	7	BL-O W	O R	4, 11, 12 3, 9, 10	
	G S	8	BL-G W	G R		40 13, 14
	L LG	19	BR-S W	BR Y	17, 18, 28 19, 20, 29	
5	R T	9	BL-BR W	BR R	4, 11, 12 3, 9, 10	
	G S	10	BL-S W	S R		40 13, 14
	L LG	20	S-W W	S Y	17, 18, 20 19, 20, 29	
6	R T	22	O R	O V	4, 11, 12 3, 9, 10	
	G S	23	G R	G V		40 13, 14
	L LG	24	BR R	BR V	17, 18, 28 19, 20, 29	

TABLE 93.04

Key Cable from External Signal
Keys to 204A or 205A Line Unit

1. To determine key cable pair, select horizontal block in left-hand table with same number as external signal key number to which tie or station line will be connected.
2. To determine terminals, select horizontal block in right-hand table with same number as line number being installed.
3. Connect cable pair selected in 1 to terminals selected in 2.

Line No. in System	Lead Desig	204A, 205A Terminal
1	GRD	40
	S	13, 14
2	GRD	40
	S	13, 14
3	GRD	40
	S	13, 14
4	GRD	40
	S	13, 14
5	GRD	40
	S	13, 14
6	GRD	40
	S	13, 14

External Sig Key No.	Lead Desig	Key Cable		
		Pair No.	C Type	D Type
			Color	
1	GRD	25	S	S
	S		R	V
2	GRD	26	BL-W	BL-W
	S		R	W
3	GRD	27	BL-O	O-W
	S		R	W
4	GRD	28	BL-G	G-W
	S		R	W
5	GRD	29	BL-BR	BR-W
	S		R	W
6	GRD	30	BL-S	S-W
	S		R	W
7	GRD	31	O-W	BL-W
	S		R	R
8	GRD	32	O-G	O-W
	S		R	R
9	GRD	33	O-BR	G-W
	S		R	R
10	GRD	34	O-S	BR-W
	S		R	R
11	GRD	35	G-W	S-W
	S		R	R
12	GRD	36	G-BR	BL-W
	S		R	BK

**Key Cable from External Signal
Keys to Running Cable**

TABLE 93.05

1. To determine key cable pair, select horizontal block in left-hand table with same number as external signal key number being used.
2. To determine running cable pair, select horizontal block in right-hand table with same number as line number in system.
3. Connect key cable pair selected in 1 to running cable pair selected in 2.

Line No. in System	Lead Desig	Running Cable		
		Pair No.	C Type	D Type
			Color	
1	GRD	2	O	O
	S		W	W
2	GRD	4	BR	BR
	S		W	W
3	GRD	6	BL-W	BL
	S		W	R
4	GRD	8	BL-G	G
	S		W	R
5	GRD	10	BL-S	S
	S		W	R
6	GRD	23	G	G
	S		R	V

External Sig Key No.	Lead Desig	Key Cable		
		Pair No.	C Type	D Type
			Color	
1	GRD	25	S	S
	S		R	V
2	GRD	26	BL-W	BL-W
	S		R	W
3	GRD	27	BL-O	O-W
	S		R	W
4	GRD	28	BL-G	G-W
	S		R	W
5	GRD	29	BL-BR	BR-W
	S		R	W
6	GRD	30	BL-S	S-W
	S		R	W
7	GRD	31	O-W	BL-W
	S		R	R
8	GRD	32	O-G	O-W
	S		R	R
9	GRD	33	O-BR	G-W
	S		R	R
10	GRD	34	O-S	BR-W
	S		R	R
11	GRD	35	G-W	S-W
	S		R	R
12	GRD	36	G-BR	BL-W
	S		R	BK