

1A AND 1A1 KEY TELEPHONE SYSTEMS

EXTERNAL SIGNAL KEYS

1.00 GENERAL

1.01 This section covers connections at the station for external signal keys of the 549 and 551 types. It includes connections between keys and connecting blocks, and between key cables and connecting blocks.

1.02 External signal keys may be used for signal-key and buzzer circuits, and/or for signaling distant terminals of ringdown, tie, and/or for station lines.

1.03 A diagram of a typical selective and/or code signaling buzzer system is shown in Section C71.379, 1A and 1A1 Key Telephone Systems, Signal-key and Buzzer Circuits, Terminations in Apparatus Cabinet.

2.00 REFERENCES

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

Key Cable to 551A Signal Keys

TABLE 35.01

| Code or Sel Ckt | Code and Sel Ckt | Lead Desig | Key Cable | | |
|-----------------|------------------|------------|-----------|------------|------------|
| | | | Pair No. | C Type | D Type |
| Sig Key No. | | Color | | | |
| | 1* | GRD S | 25 | S R | S V |
| 1 | 2 | GRD S | 26 | BL-W R | BL-W W |
| 2 | 3 | GRD S | 27 | BL-O R | O-W W |
| 3 | 4 | GRD S | 28 | BL-G R | G-W W |
| 4 | 5 | GRD S | 29 | BL-BR R | BR-W W |
| 5 | 6 | GRD S | 30 | BL-S R | S-W W |
| 6 | 7 | GRD S | 31 | O-W R | BL-W R |
| 7 | 8 | GRD S | 32 | O-G R | O-W R |
| 8 | 9 | GRD S | 33 | O-BR R | G-W R |
| 9 | 10 | GRD S | 34 | O-S R | BR-W R |
| 10 | 11 | GRD S | 35 | G-W R | S-W R |
| 11 | 12 | GRD S | 36 | G-BR R | BL-W BR |
| 12 | | GRD S | 37 | G-S R | O-W BK |

* Pair 25 is reserved for signal key when code and selective signaling circuit is used (see Table 79.02).

TABLE 35.02

**Key Cable to Signal Keys
Code and Selective Signaling**

- 4 External Signal Keys Using 549A or B Key
- 8 External Signal Keys Using 549C or D Key
- 12 External Signal Keys Using 549C or D and 549A or B Keys

| Ex- ternal Sig Key | Lead Desig | Key Cable | | | 4 Ckts | | | | 12 Ckts | | | | | |
|-----------------------------|---------------|-------------|------------|------------|------------------------|-----------|----------|-------------------------------|-------------------------------|-----------|----------|--------|----------|--|
| | | Pair No. | C Type | D Type | Conn Block Term. | Key | | 1st Conn Block Term. | 2nd Conn Block Term. | Key | | | | |
| | | | Color | 549A or B | | 549C or D | | | | 549A or B | | | | |
| | | | | Color | | Term. | Color | | | Term. | Color | Term. | | |
| 1* | GRD S | 25 | S R | S V | 5† 1 | Y R | GRD A | 9† 1 | | BK R | GRD A | | | |
| 2 | GRD S | 26 | BL-W R | BL-W W | 6† 2 | G | B | 10† 2 | | G | B | | | |
| 3 | GRD S | 27 | BL-O R | O-W W | 6† 3 | BL | C | 10† 3 | | RR | C | | | |
| 4 | GRD S | 28 | BL-G R | G-W W | 7† 4 | W | D | 4 | 1† | BL | D | | | |
| 5 | GRD S | 29 | BL-BR R | BR-W W | | | | 5 | 1† | Y | E | | | |
| 6 | GRD S | 30 | BL-S R | S-W W | | | | 6 | 2† | YY | F | | | |
| 7 | GRD S | 31 | O-W R | BL-W R | | | | 7 | 2† | WW | G | | | |
| 8 | GRD S | 32 | O-G R | O-W R | | | | 8 | 3† | W | H | | | |
| 9 | GRD S | 33 | O-BR R | G-W R | | | | | 4† 7 | | | Y R | GRD A | |
| 10 | GRD S | 34 | O-S R | BR-W R | | | | | 5† 8 | | | G | B | |
| 11 | GRD S | 35 | G-W R | S-W R | | | | | 5† 9 | | | BL | C | |
| 12 | GRD S | 36 | G-BR R | BL-W BK | | | | | 6† 10 | | | W | D | |

* Pair 25 is reserved for signal key when code and selective signaling circuit is used (see Table 79.02).

† Strap terminals 9 and 10 on first block to terminals 1 through 6 on second block.

TABLE 35.03

**Key Cable to Signal Keys
Code or Selective Signaling**

- 4 External Signal Keys Using 549A or B Key
- 8 External Signal Keys Using 549C or D Key
- 12 External Signal Keys Using 549C or D and 549A or B Keys

| Ex- ternal Sig Key | Lead Desig | Key Cable | | | 4 Ckts | | | | 12 Ckts | | | | | |
|-----------------------------|---------------|-------------|------------|------------|------------------------|-----------|----------|-------------------------------|-------------------------------|-----------|----------|-----------|----------|--|
| | | Pair No. | C Type | D Type | Conn Block Term. | Key | | 1st Conn Block Term. | 2nd Conn Block Term. | Key | | | | |
| | | | | | | 549A or B | | | | 549C or D | | 549A or B | | |
| | | | Color | | | Color | Term. | | | Color | Term. | Color | Term. | |
| 1 | GRD S | 26 | BL-W R | BL-W W | 5* 1 | Y R | GRD A | 9* 1 | | BK R | GRD A | | | |
| 2 | GRD S | 27 | BL-O R | O-W W | 6* 2 | G | B | 10* 2 | | G | B | | | |
| 3 | GRD S | 28 | BL-G R | G-W W | 6* 3 | BL | C | 10* 3 | | RR | C | | | |
| 4 | GRD S | 29 | BL-BR R | BR-W W | 7* 4 | W | D | 4 | 1* | BL | D | | | |
| 5 | GRD S | 30 | BL-S R | S-W W | | | | 5 | 1* | Y | E | | | |
| 6 | GRD S | 31 | O-W R | BL-W R | | | | 6 | 2* | YY | F | | | |
| 7 | GRD S | 32 | O-G R | O-W R | | | | 7 | 2* | WW | G | | | |
| 8 | GRD S | 33 | O-BR R | G-W R | | | | 8 | 3* | W | H | | | |
| 9 | GRD S | 34 | O-S R | BR-W R | | | | | 4* 7 | | | Y R | GRD A | |
| 10 | GRD S | 35 | G-W R | S-W R | | | | | 5* 8 | | | G | B | |
| 11 | GRD S | 36 | G-BR R | BL-W BK | | | | | 5* 9 | | | BL | C | |
| 12 | GRD S | 37 | G-S R | O-W BK | | | | | 6* 10 | | | W | D | |

* Strap terminals 9 and 10 on first block to terminals 1 through 6 on second block.