

TESTING CORD ASSEMBLIES
CORDS HAVING MORE THAN SIX CONDUCTORS
W7A THROUGH W16C

DESCRIPTION

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6. W8E Cord		3	1. GENERAL		
7. W9A Cord		4	1.01 This section lists and illustrates the W7A through W16C cords.		
8. W10B Cord		4	1.02 Revision arrows are used to emphasize significant changes. The reasons for reissue are listed below.		
9. W12A Cord		5	(a) To rate the W8H, W14B, and W14C cords Mfr Disc.		
10. W13A Cord		5	(b) To update the section to standard format.		
11. W13B Cord		5	1.03 For general information on these cords, refer to Section 032-317-100. The following list of cords have been rated Mfr Disc.		
12. W16B Cord		6	● W8H		
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NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

- W10A
- W12B
- W12D
- W14B
- W14C

2. DESCRIPTION OF CORDS

2.01 W7A: The W7A cord (Fig. 1) includes three 132 cord tips, two 133 cord tips, and seven 136 cord tips. The plug end is arranged for use with three 310 plugs. When ordered equipped with plugs, the arm containing the blue, orange, and white conductors will have a gray shell; the arm containing the yellow, red, and black conductors will have a red shell; and the arm containing the green conductors will have a black shell. On the black arm, a green strap conductor joins the body green conductor at the sleeve and loops over the tip. The cord is intended to be used with the 40A and 40B test sets. The W7A cord is 10 feet long and has a resistance of 0.21 ohm per foot.

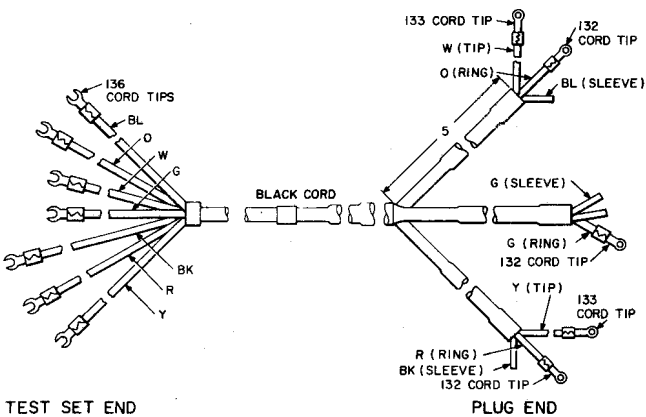


Fig. 1—W7A Cord

2.02 W7B: The W7B cord (Fig. 2) includes one 30 cord tip, three 107 cord tips, one 120 cord tip, two 129 cord tips, and seven 134 cord tips. The receiver end is arranged for a 716E tool. The plug end is arranged for a 240-type plug and a 360-type tool. The tool end is arranged for a 360-type tool. The cord is intended to be used as part of the 40C test set. The W7B cord is 11 feet long and has a resistance of 0.21 ohm per foot.

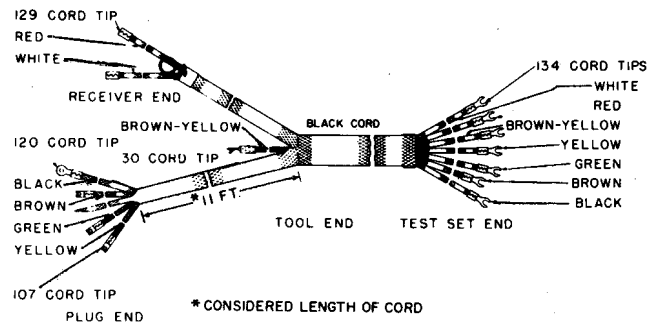


Fig. 2—W7B Cord

2.03 W7C: The W7C cord (Fig. 3) includes a KS-14528, L2, connector and a KS-14527, L2, connector. The lettered terminals of one connector are connected to the corresponding lettered terminals of the other connector. The cord is intended for use with coin collector trunk units. The W7C cord is 3 feet long and has a resistance of 0.05 ohm per foot.

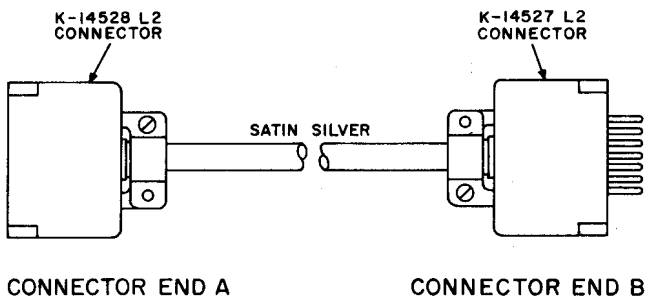


Fig. 3—W7C Cord

2.04 W8C: The W8C (Fig. 4) cord includes one KS-14461, L3, plug (20 contacts) and one 122 cord tip. The free conductors on the test set end are 10 inches long. The conductors are connected to the plug terminals as shown in Table A. The cord forms part of the J94002J repeater test set. The W8C cord is 4 feet long and has a resistance of 0.017 ohm per foot.

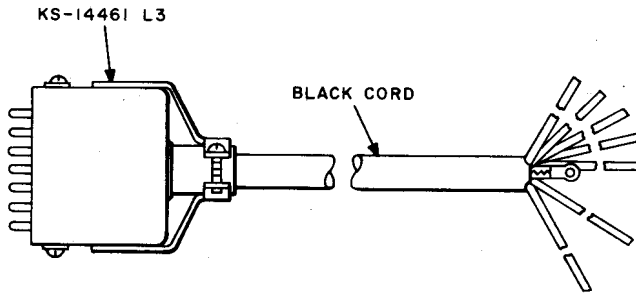


Fig. 4—W8C Cord

TABLE A

CONDUCTOR-PLUG TERMINAL CONNECTIONS FOR W8C CORD

COND	TERM. NO.	COND	TERM. NO.
Black	2	Yellow	10
Red	5	White	13
Blue	6	Red } Twisted	14
Green	7	Black } Pair	15

2.05 W8D: The W8D (Fig. 5) cord includes one KS-14524, L8, connector (15 contacts) and one KS-8586, L7, socket (8 contacts). The conductors are connected to the plug terminals as shown in Table B. The cord forms part of the J94002M repeater switching set. The W8D cord is 6 feet long and has a resistance of 0.017 ohm per foot.

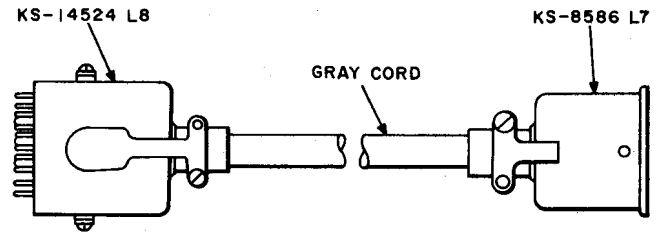


Fig. 5—W8D Cord

TABLE B

CONDUCTOR-PLUG TERMINAL CONNECTIONS FOR W8D CORD

CONN. TERM. NO.	SOCKET TERM. NO.	CONN. TERM. NO.	SOCKET TERM. NO.
1	1	10	5
3	2	12	6
5	3	6	7
13	4	15	8

2.06 W8E: The W8E cord (Fig. 6) includes one KS-14460, L2, plug (20 contacts). The free conductors are 6 inches long. Table C shows conductor termination and plug terminal connections. The cord is intended for use with the J64001AL power test set in connection with the L3 Carrier System. The W8E cord is 4 feet long and has a resistance of 0.017 ohm per foot.

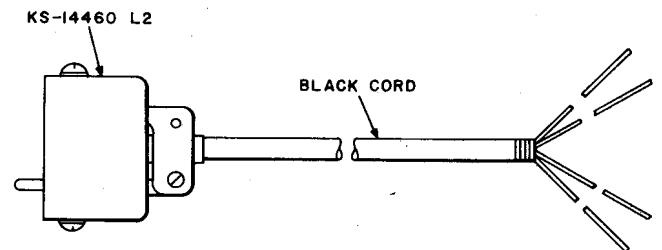


Fig. 6—W8E Cord

TABLE C

CONDUCTOR-PLUG TERMINAL CONNECTIONS
FOR W8E CORD

COND	TERM. NO.	COND	TERM. NO.
Red	0	Blue	12
Green	6	White	17
Yellow	4	Brown-Red	11
Black	5	Brown-Green	16

2.07 W9A: The W9A cord (Fig. 7) has a slate color cover and includes four shielded pairs of No. 27 American Wire Gauge (AWG) stranded conductors. The shields of the pairs covered with black vinyl tubing form the ninth conductor. The connector end of the W9A cord is equipped with a 15-terminal KS-19088, L1, connector having a plastic slate colored KS-19196 hood. The test end of the cord is terminated in free conductors with spade-type tips arranged for No. 4, 5, or 6 screws. The conductors are connected to connector terminals as shown in Table D with terminals 5 and 12 of the connector strapped. The cord is intended for use with a J1D301B test set. The W9A cord is 10 feet long and has a resistance of 0.05 ohm per foot.

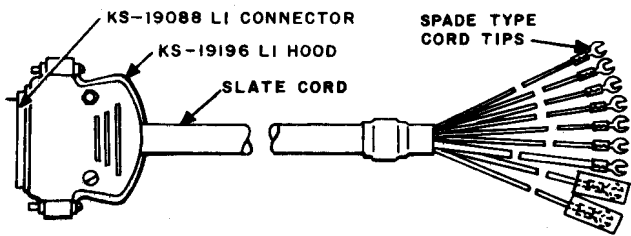


Fig. 7—W9A Cord

TABLE D

CONDUCTOR-PLUG TERMINAL CONNECTIONS
FOR W9A CORD

COND AT TEST END	CONN TERM.	COND AT TEST END	CONN TERM.
Blue-White	1	White-Blue	9
Brown-White	2	White-Brown	10
Green-White	3	White-Orange	15
White-Green	5	Black-Shield	—
Orange-White	8	—	—

2.08 W10B: The W10B cord (Fig. 8) has a black nylon cover which contains 5 twisted pairs of No. 22 American Wire Gauge (AWG) stranded wire. The plug end consists of a KS-14461, L2, plug (20 contacts) while the other end of the cord terminates in 6-inch long free conductors. The plug terminals and conductors are connected as shown in Table E. The cord is intended for use with the J64001A1 power test set in connection with the L3 Carrier System. The W10B cord is 4 feet long and has a resistance of 0.017 ohm per foot. At the plug end, terminals 15, 16, and 19 are strapped.

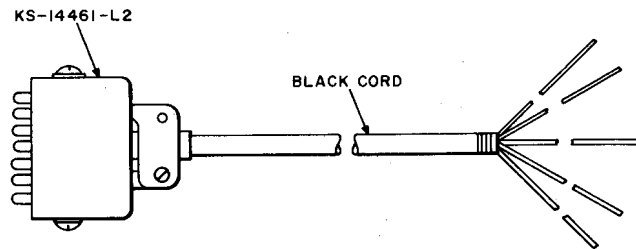


Fig. 8—W10B Cord

TABLE E
CONDUCTOR-PLUG TERMINAL CONNECTIONS
FOR W10B CORD

COND	TERM. NO.	COND	TERM. NO.
Red	0	Brown-Red	10
Green	1	Brown-Green	19
Yellow	4	Brown-Yellow	11
Black	7	Brown-Black	13
Blue	9	—	—
White	18	—	—

2.09 W12A: The W12A cord (Fig. 9) includes eleven 360A tools and one 360B tool equipped with a 141 cord tip. The cord is intended for use in selecting the capacitance values of 187-type capacitors. The W12A cord is 1-1/2 inches long and has a resistance of 0.21 ohm per foot.

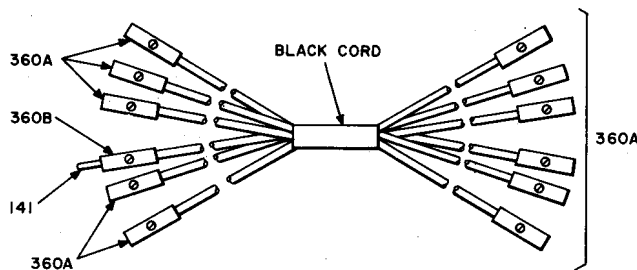


Fig. 9—W12A Cord

2.10 W13A: The W13A cord (Fig. 10) includes one KS-14461, L3, plug (20 contacts) on end A and one KS-14460, L3, plug (20 contacts) on end B. Terminals 0, 1, 2, and 9 through 18 of one plug are connected to the corresponding numbered terminals of the other plug. The shields are connected to terminal 10 of both plugs. Terminals 3 through 8 and 19 of each plug have no connections to them. The cord is intended for use in testing the J94002N group unit switching set in the N1 Carrier Telephone System. The W13A cord is 2 feet long and has a resistance of 0.017 ohm per foot.

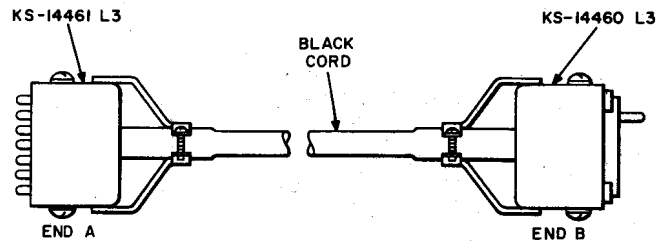


Fig. 10—W13A Cord

2.11 W13B: The W13B cord (Fig. 11) includes one KS-14461, L3, plug on plug end A, one KS-14460, L3, plug on plug end B, two KS-14530 test prod connectors, and two No. 35 cord tips. The black, red, green, and yellow conductors are connected to terminals 1, 6, 14, and 17, respectively, of the plug at plug end B. Terminals 2, 7, 9, 10, 12, 14, 16, 18, and 19 of one plug are connected to the corresponding numbered terminals of the other plug. Terminals 2 and 4 of the KS-14460, L3, plug are strapped together. The cord is intended for use with the L3 regulator in the J68854 TH radio message connecting links. The W13B cord is 6 feet long and has a resistance of 0.010 ohm per foot.

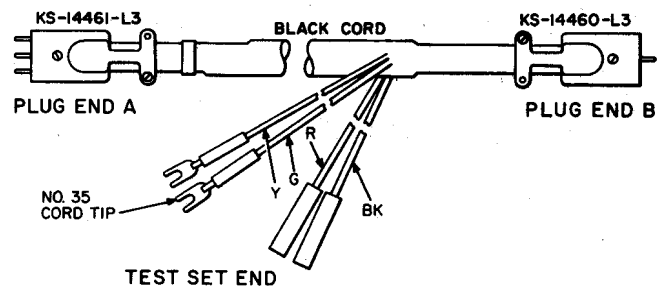


Fig. 11—W13B Cord

2.12 W16B: The W16B cord (Fig. 12) includes a KS-14524, L7 connector (15 contacts) on the connector end and a P-497087 cord grip on the test set end. The free conductors are 10 inches long. The cord is intended for use with the J64001AK tube test set in the TD-2 Radio System. The W16B cord is 4 feet long and has a resistance of 0.017 ohm per foot.

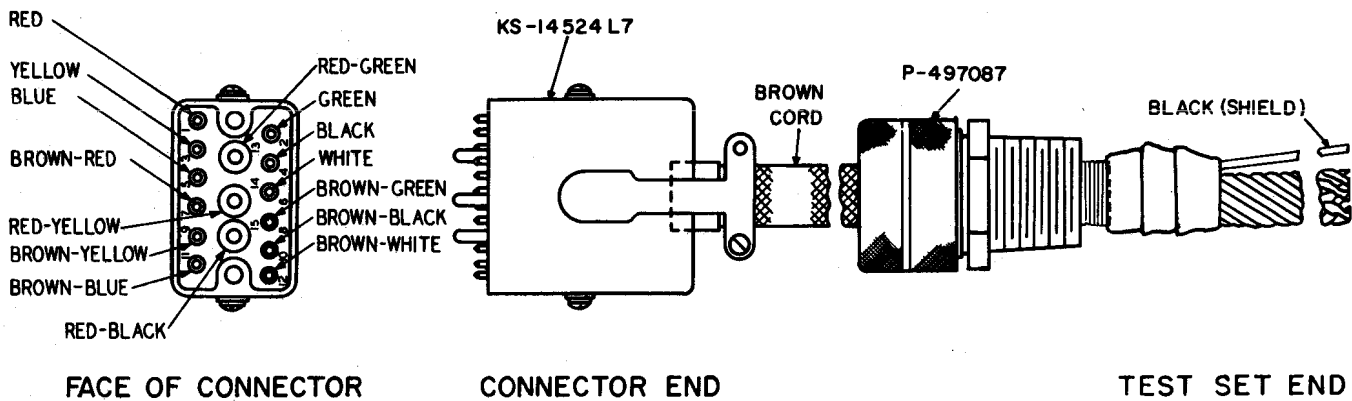


Fig. 12—W16B Cord

2.13 **W16C:** The W16C cord (Fig. 13) includes one KS-16370, L42, connector and fifteen 105 cord tips. Conductor and terminal connections are shown in Table F. The cord is intended to be used on

the N2 repeater switching set J99321S. The W16C cord is 10 feet long and has a resistance of 0.27 ohm per foot.

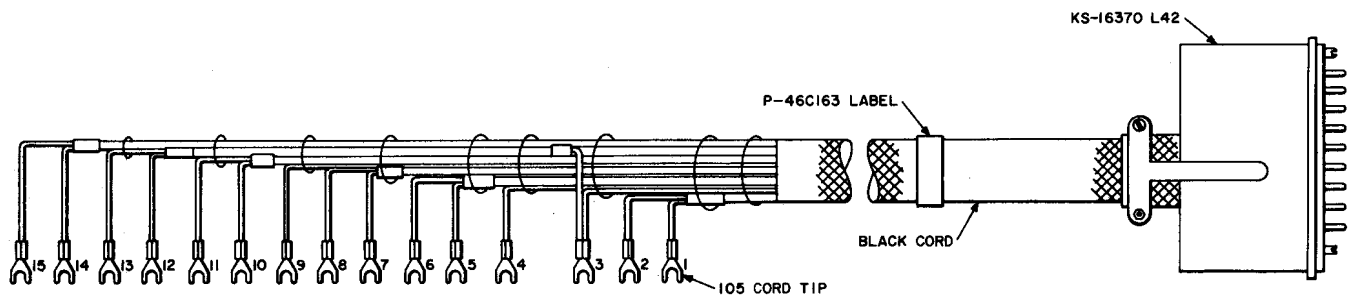


Fig. 13—W16C Cord

TABLE F
CONDUCTOR-PLUG TERMINAL CONNECTIONS
FOR W16C CORD

TERMINAL STRIP END CONDUCTOR POSITION	JACKET COLOR SHIELDED PAIR	CONDUCTOR COLOR	CONNECTOR END TERM. NO.
15	Yellow	Blue	A
5	Blue	White	B
1	Slate	White	C
14	Yellow	White	D
4	—	White	E
6	Blue	Blue	F
2	Slate	Blue	H
13	Brown	Blue	K
7	Orange	White	L
10	Green	White	M
12	Brown	White	N
9	—	Red	P
8	Orange	Blue	R
11	Green	Blue	S
3	—	Black	T
3*	—	Black	†

* Shield termination.

† No shield termination.