

CONNECTOR CABLES IDENTIFICATION

1. GENERAL

1.01 This section provides identification and ordering information for the A- and B-type connector cables used to terminate equipment and apparatus on customer premises.

1.02 This section is reissued to:

- Add additional lengths for the A25D connector cable for use with the 812A PBX (see Table B)
- Add KS numbers for new solderless plugs and connectors to Table B
- Rate the A20B, B20A, A40A, and A65A connector cables MD. Recommended substitutes are the A25B, B25A, A50B, and A75A, respectively.

1.03 The solderless connectors will be supplied with either metal or plastic hoods on the A25B, A25D, A25M, B25A, and B25C cables. These cables will also continue to be manufactured with soldered connectors having metal hoods. The solderless plugs and connectors are coded as follows:

- KS-21443,L2 (plastic hood) and KS-16689,L18 (metal hood) plug—replace KS-16689,L3
- KS-21442,L2 (plastic hood) and KS-16690,L12 (metal hood) connector—replace KS-16690,L1

1.04 Adapters, service fittings, terminals, and cover assemblies, for use with connector cables and cords, are covered in the appropriate section in Division 461.

2. IDENTIFICATION

2.01 **Purpose:** To provide a quick means for connecting inside wire cable to telephone

apparatus by mating KS-type connectors to matching plugs (Fig. 1).

2.02 **Design Features:** The A- and B-type connector cables consist of the following:

- 24-gauge conductors that have a tinned or untinned finish
- Vinyl insulation, which conforms to the even-count color-code scheme, on individual conductors
- Outer jackets of light olive gray vinyl
- Cables equipped with 50-contact plug(s) or connector(s) except as noted in Table B
- Nylon draw string under vinyl jacket which facilitates removal of the jacket for terminating conductors.



Plugs and connectors used on these cables are neither waterproof nor moistureproof. A terminal box, service fitting, or cover assembly should be used at installations where moisture might enter the connectors through mopping operations, condensation, etc.

2.03 A-type connector cables are furnished as single-ended (one end equipped, the other raw-ended) or double-ended (both ends equipped with the same KS-type plug or connector). B-type cables are furnished double-ended only, with a plug at one end and a connector on the opposite. The exceptions are the B25C and B50B used with 6051-type keys. Refer to Table A for detailed information.

2.04 Those 12-pair connector cable conductors, which are terminated at the connector or plug-in nonstandard color-code sequence, are shown

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Bell System except under written agreement

in Table A. Table B is a list of all the cables and their intended use.

2.05 Certain cables are furnished with plugs at one end and plugs and terminal strips at the other. A view showing the cable terminal strips and numbering arrangement is shown in Fig. 2, 3, and 4. Fig. 5 through 12 show the cable plug, terminal strip, and lead color assignments.

2.06 The B25C connector cable permits use of a 6051-type key (11 pickup and hold) fed through a 25-pair connector cable using a nonstandard cutdown. Refer to Division 512 for wiring.

2.07 Ordering Guide:

- Cable, Connector—Specify proper code number (double- or single-ended) and length in feet. Refer to Table B.

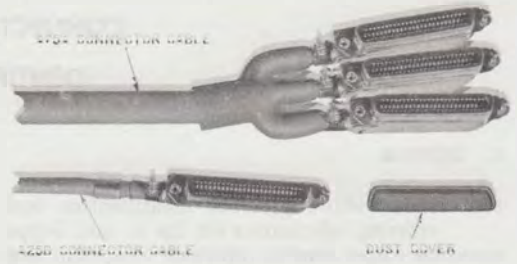


Fig. 1—Typical Cable Connectors With Dust Cover Removed

TABLE A

A12A, A12B, A12D, AND A12E CONNECTOR CABLE IDENTIFICATION

CONDUCTOR COLOR	PLUG OR CONNECTOR TERM. NO.			
	A12A	A12B	A12D	A12E
BL-W	1	1	1	1
W-BL	13	26	26	13
O-W	2	3	2	2
W-O	14	28	27	14
G-W	3	5	3	3
W-G	15	30	28	15
BR-W	4	7	4	4
W-BR	16	32	29	16
S-W	5	9	5	5
W-S	17	34	30	17
BL-R	6	11	6	6
R-BL	18	36	31	18
O-R	7	13	7	7
R-O	19	38, 39, 40†	32	19
G-R	8	14	8	8
R-G	20	15	33	20
BR-R	9	16	9	9
R-BR	21	41, 42, 43†	34	21
S-R	10	17	23	10
R-S	22	18	48	22
BL-BK	11	19	24	11
BK-BL	23	44	49	23
O-BK	12	20	25	12
BK-O	*	45	50	24
Shield Pigtail	24	50		

* Cut off at plug end.

† Terminals strapped in plug.

♦ TABLE B ♦

A- AND B-TYPE CONNECTOR CABLES, SELECTION

CODE	CONDUCTOR FINISH	TOTAL NO. OF CONDUCTORS OR CONTACTS, EACH PLUG OR CONNECTOR		NO. OF ARMS AT CONN OR PLUG END	NO. OF CONDUCTORS IN EACH ARM	CONNECTOR OR PLUG	INTENDED USE	STANDARD AVAILABLE LENGTHS (IN FEET) ¶				
		CONDUCTORS	CONTACTS					SINGLE-ENDED	DOUBLE-ENDED **			
A12A †	Tinned	24	24		24	KS-16785L6 Plug	301 Sw Sys Equip in Airport Towers and Radar Rooms	4 and 8				
A12B †						KS-16785L8 Plug						
A12D	Untinned					KS-16690L5 Connector	3A Comm Sys	13, 50, and 100		30, 80, 100, and 200		
A12E						KS-16785L6 Plug	AUTOVON — No. 309 Sw Sys	4 and 8				
A25A	Untinned *	50	50	1	50	KS-16671L1 Plug †	6050 Keys	50 and 100	30, 80, 100, and 200			
A25B						KS-16690L1, KS-16690L12 or KS-21442L2 Connector	564-, 565-, 634-, 2564-, 2565- and 2634-type Telephone Sets	13, 50, 100, and 200	30, 80, 100, and 200			
A25C	Tinned					KS-16785L8 Plug	Consoles for Strategic Air Command Installations	Any length as specified				
A25D	Untinned *					KS-16689L3, KS-16689L18 or KS-21443L2 Plug	761A, 762A, and 812A PBX	13, 20, 22, 24, 25, 26, 50, 75, 100, 125, 150	3, 6, 9, 25, 50, 75, 100, 125, 150			
A25E	Tinned				2	25	1	50	KS-16671L1 Plug †	6051 Key in Antiaircraft Operations Control System Battery Locations	Any length as specified	
A25F	Tinned									12B and 14B Apparatus Units in 2A and 3A ACD Systems §	50, 100, and 150	
A25M ††						1	50	KS-16690L1, KS-16690L12 or KS-21442L2 Connector	Shielded Connector Cable for use where RFI encountered in Picturephone® Installations	Any length as specified		
A50A	Untinned *				100	50	2	50	KS-16671L1 Plug †	6051 Keys	50 and 100	30, 80, 100, and 200
A50B		KS-16690L1 Connector	610A, 635- and 2635-type Telephone Sets	50, 100, 150, and 200					100 and 200			
A50C		KS-16785L8 Plug	Telephone Secretarial Service Concentrator-Identifier	50 and 100								
A50D (A & M Only)	Tinned	KS-16671L1 Plug †	12A and 14A Apparatus Units in 2A and 3A ACD Systems §	50, 100, and 150								
A50E			12B and 14B Apparatus Units in 2A and 3A ACD Systems §									

◆ TABLE B (Cont) – A- AND B-TYPE CONNECTOR CABLES, SELECTION ◆

CODE	CONDUCTOR FINISH	TOTAL NO. OF CONDUCTORS OR CONTACTS, EACH PLUG OR CONNECTOR		NO. OF ARMS AT CONN OR PLUG END	NO. OF CONDUCTORS IN EACH ARM	CONNECTOR OR PLUG	INTENDED USE	STANDARD AVAILABLE LENGTHS (IN FEET) ¶	
		CONDUCTORS	CONTACTS					SINGLE-ENDED	DOUBLE-ENDED **
A75A	Untinned*	150	50	3	50	KS-16690L1 Connector	630D and 632A Key Tel Set; 584C Panel	6, 50, 100, 150, 200, and 250	30, 80, 100, and 200
A75B	Tinned					KS-16785L8 Plug	618D Key and Armflite Indicator in No. 304 Sw Sys (NASA Projects)		
A100C	Untinned*	200	50	4	50	KS-16690L1 Connector	4A and 6A Tel Consoles	50, 100, and 200	30, 80, 100, and 200
A100D				5	40		608B, 631B, and 637A Key Tel Sets; replaces A100A(MD) Connector Cable		
A100E				4	50	KS-16785L8 Plug	2A ACD System §	50	
A100F				Tinned		KS-16690L1 Connector	3A Communications Systems	100	
A125A	Untinned*	250	50	5	50	KS-16690L1 Connector	761A PBX Consoles for Hotel-Motel and small Hospital Systems	50, 75, and 100	
A150A	Untinned	300	50	6	50	KS-16690L1 Connector (6)	Extension Cable for use between Attendant Console and 801A PBX Termination Field	50 and 100	5, 15, 30, 60, and 100
B25A		50	50	1	50	KS-16690L1, KS-16690L12 or KS-21442L2 connector KS-16689L3, KS-16689L18 or KS-21443L2 Plug	Extension Cable to Connect Plug-Ended Key Tel Sets to Connector or Plug-Equipped Bridging Terminals, Apparatus Cabinets, etc		
B25C		50	50	1		KS-16689L3, KS-16689L18 or KS-21443L2 Plug KS-16671L1 Plug (2)†	No. 6051 Keys, Terminal Strips arranged in tandem (1A1-1A2 KTS Only)	5-1/2	
B50A		100	50	2	KS-16690L1 Connector KS-16689L3 Plug	Extension Cable for use between 800A PBX and Console	50, 100, and 200		
B50B		100	50	2	KS-16689L3 Plug (2) KS-16671L1 Plug (2)†	No. 6051 Keys, Terminal Strips arranged in tandem	8		
B75A		150	50	3	KS-16690L1 Connector KS-16689L3 Plug	Extension Cable for use between 800A PBX and Console	50, 100, and 200		

◆ TABLE B (Cont) – A- AND B-TYPE CONNECTOR CABLES, SELECTION ◆

CODE	CONDUCTOR FINISH	TOTAL NO. OF CONDUCTORS OR CONTACTS, EACH PLUG OR CONNECTOR		NO. OF ARMS AT CONN OR PLUG END	NO. OF CONDUCTORS IN EACH ARM	CONNECTOR OR PLUG	INTENDED USE	STANDARD AVAILABLE LENGTHS (IN FEET)¶	
		CONDUCTORS	CONTACTS					SINGLE-ENDED	DOUBLE-ENDED **
B150A	Untinned	300	50	6	50	KS-16689L3 Plug (6) KS-16690L1 Connector (6)	Extension Cable for use between Attendant Console and 801A PBX Termination Field.		50 and 100

* Previously furnished tinned.

† Each plug is assembled on a terminal frame or strip.

‡ Wire braid shield extends over entire length of cable. It is terminated on the plug at one end and twisted into a pigtail at the free end.

§ Automatic Call Distributing Systems.

¶ When specified any nonstandard length can be furnished.

** Double-ended cables are terminated at both ends in the same type connector and/or plug as shown in the connector or plug column.

†† Refer to Section 800-612-164 for additional information on shielded cable.

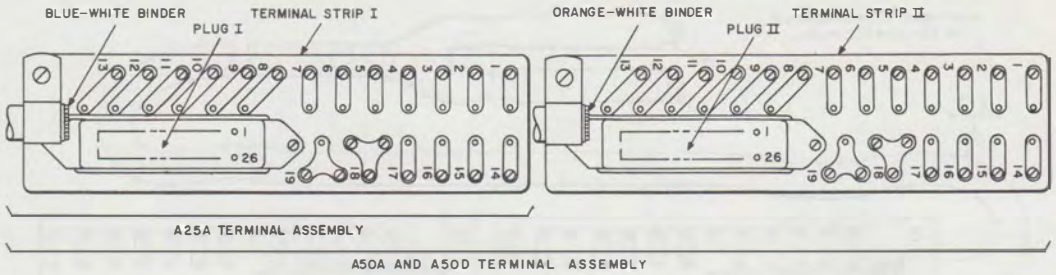


Fig. 2—View of Terminal Strip, Local Wiring Side

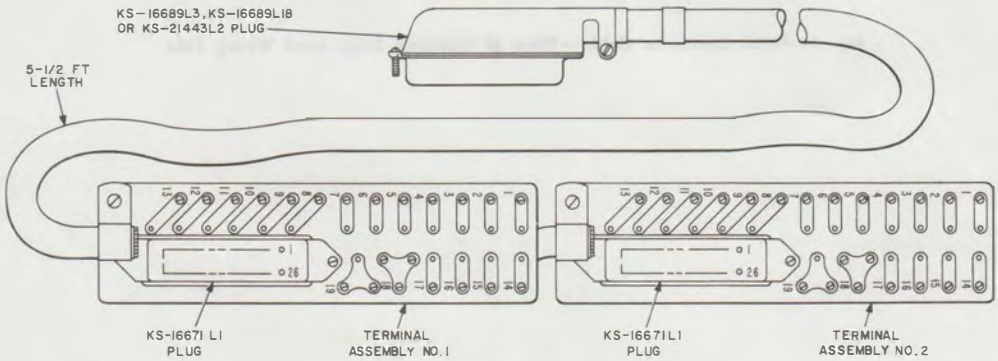


Fig. 3—B25C Connector Cable—View of Terminal Strip, Local Wiring Side

* KS-16689 L3, KS-16689 L18
OR KS-21443L2 PLUG

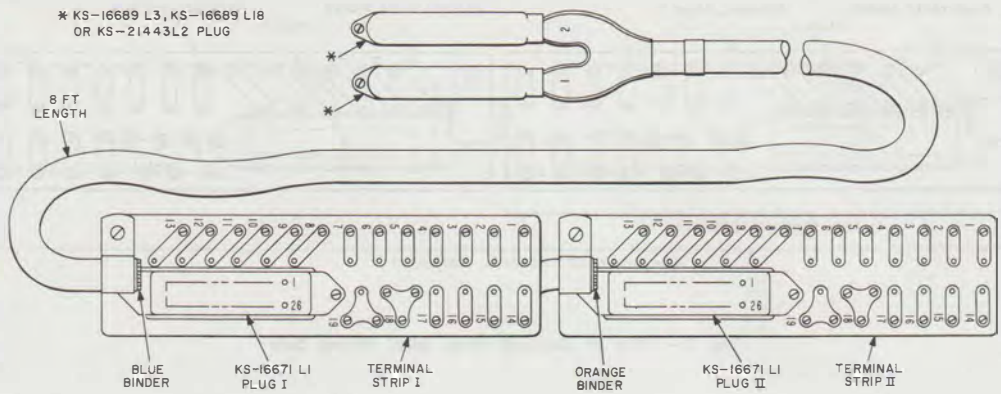


Fig. 4—B50B Connector Cable—View of Terminal Strip, Local Wiring Side

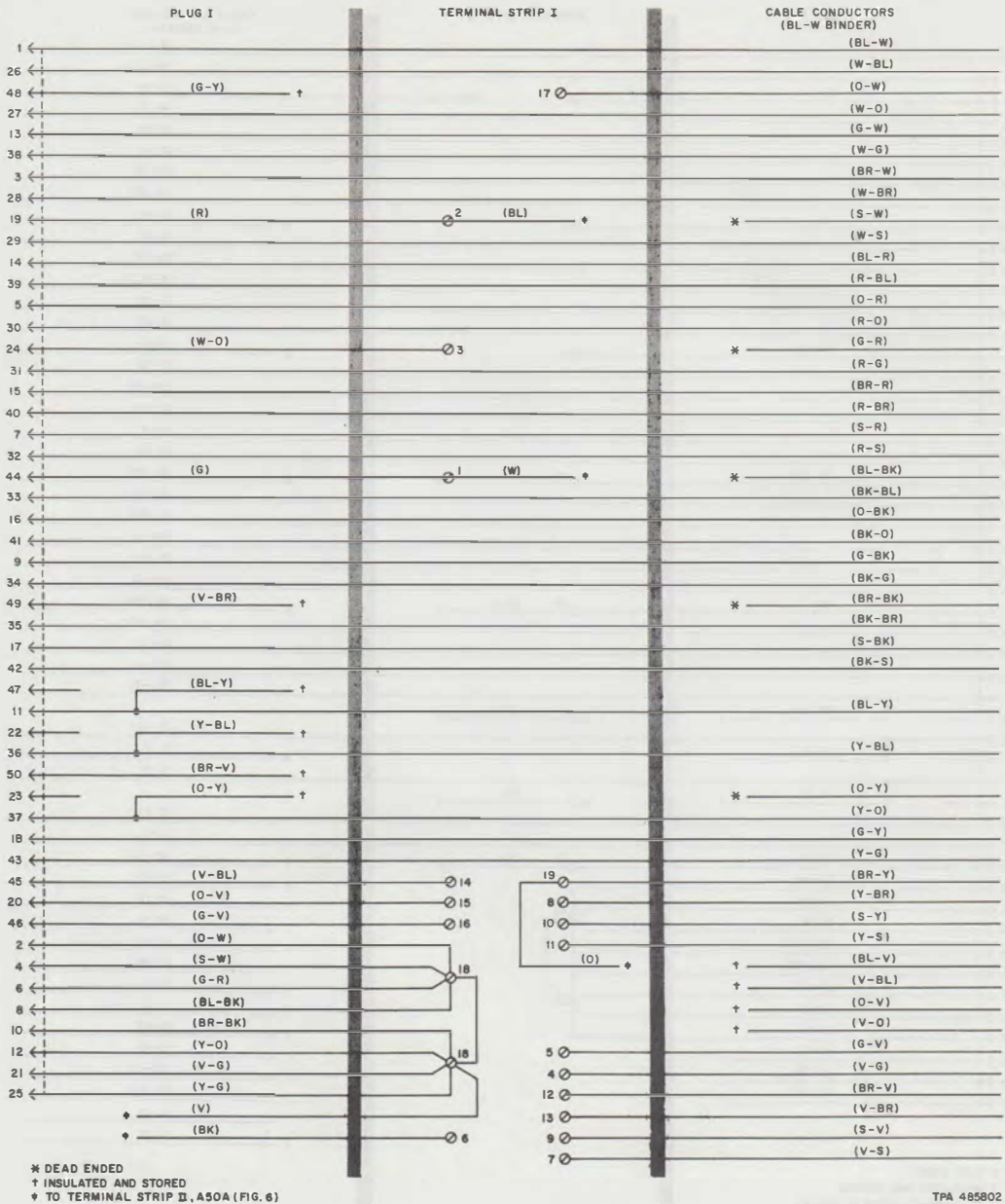


Fig. 5—A25A and A50A (BL-W Binder) Connector Cable, Connections

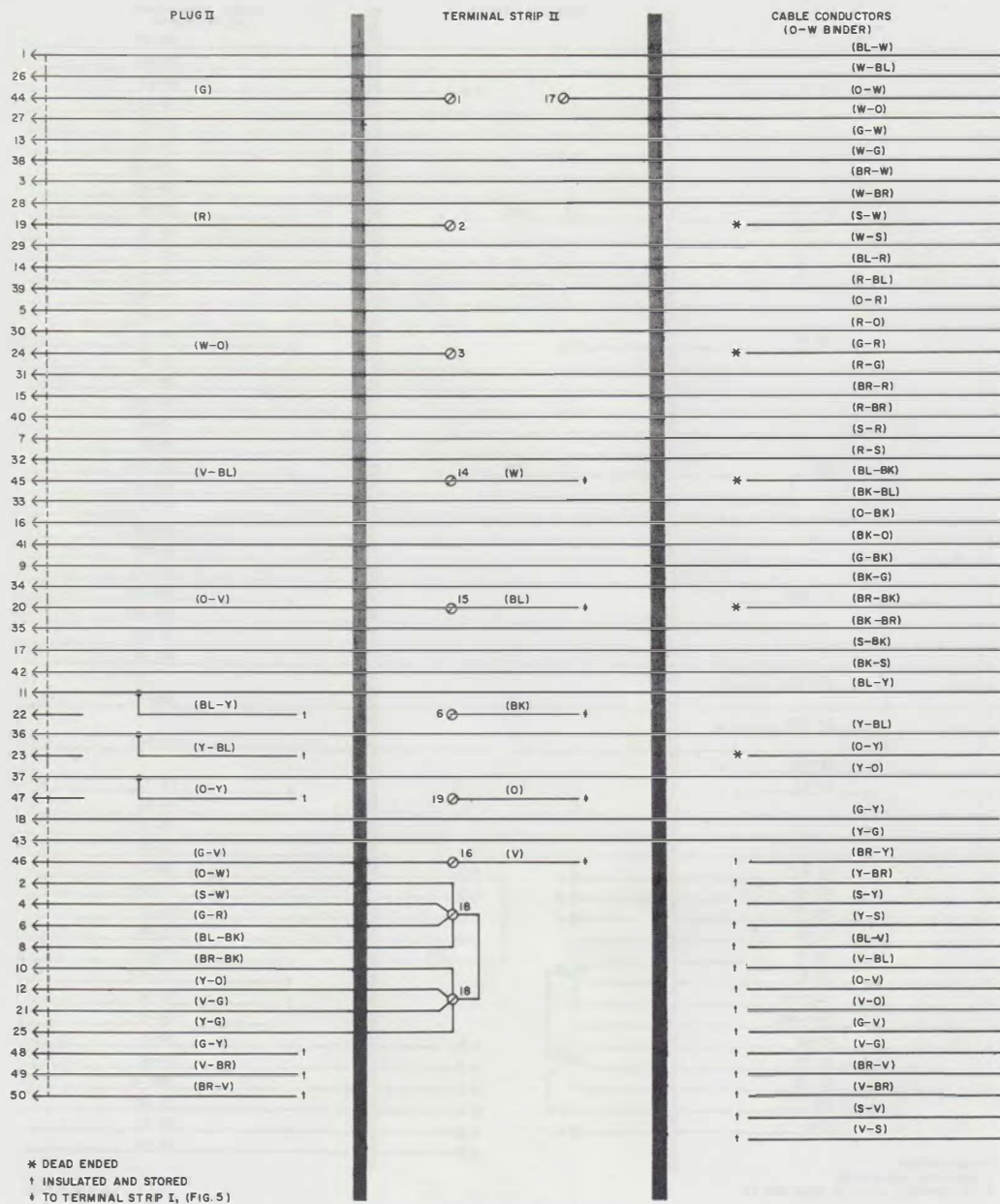


Fig. 6—A50A (O-W Binder) Connector Cable, Connections

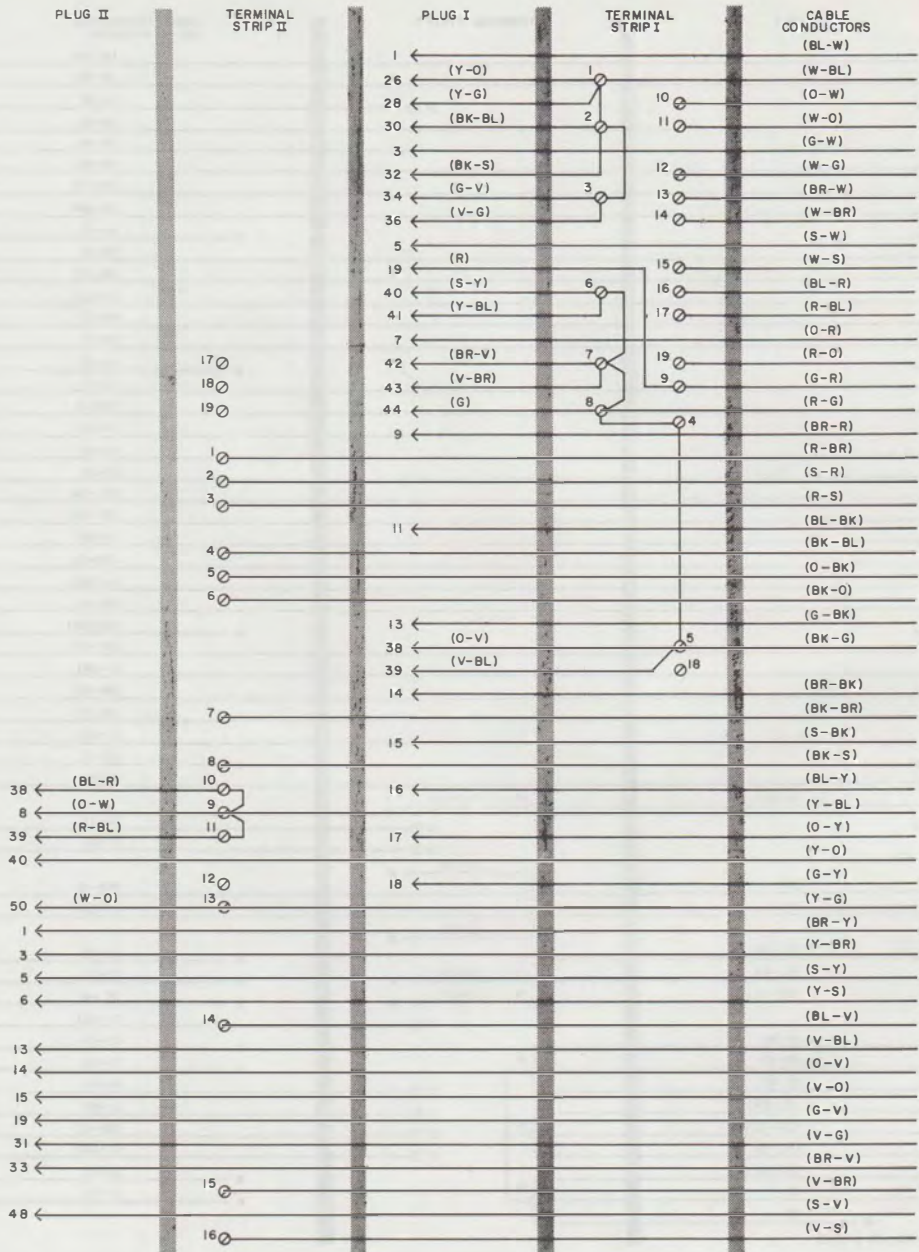


Fig. 7—A25E Connector Cable, Connections

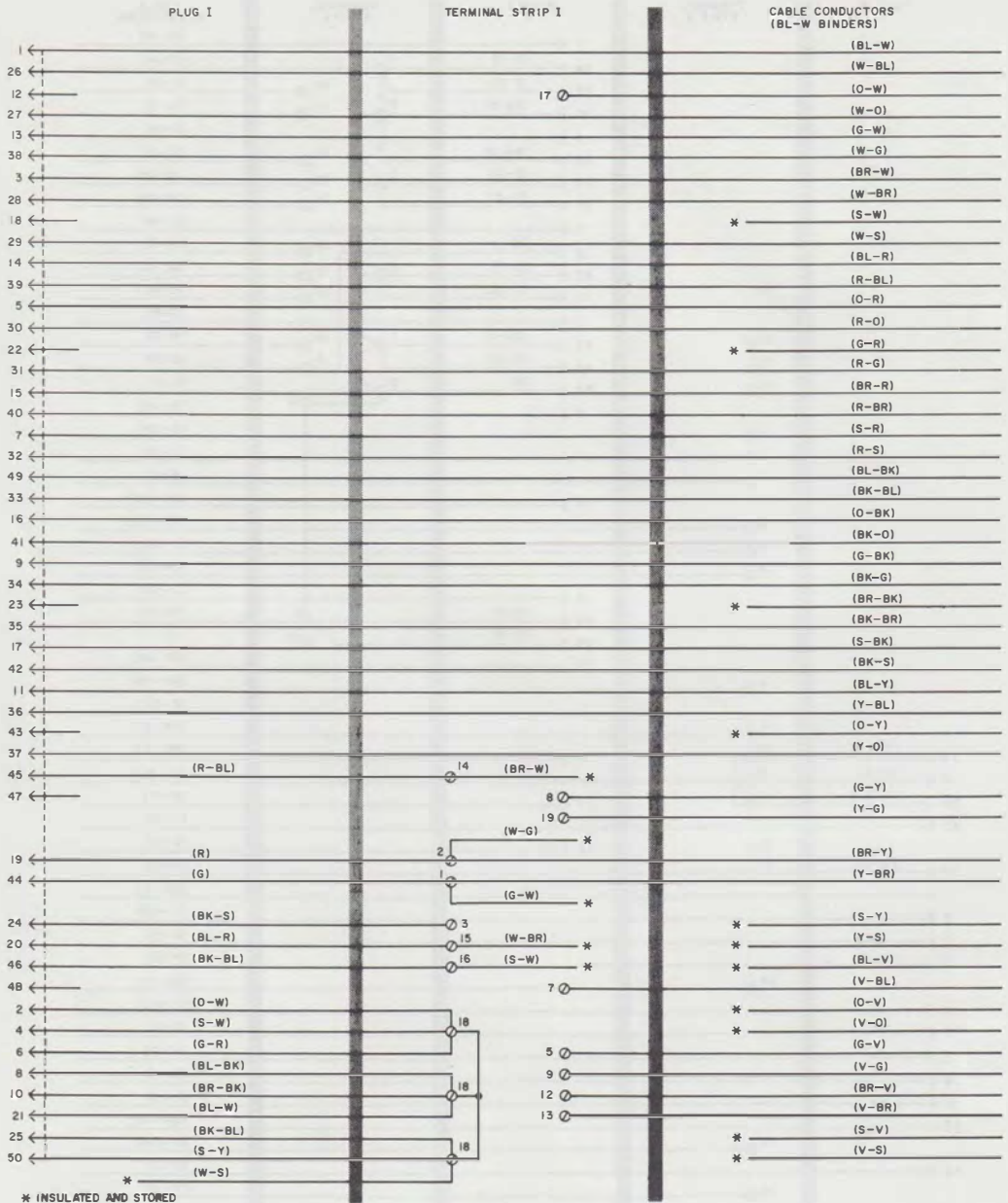


Fig. 8—A50D (BL-W Binder) Connector Cable, Connections

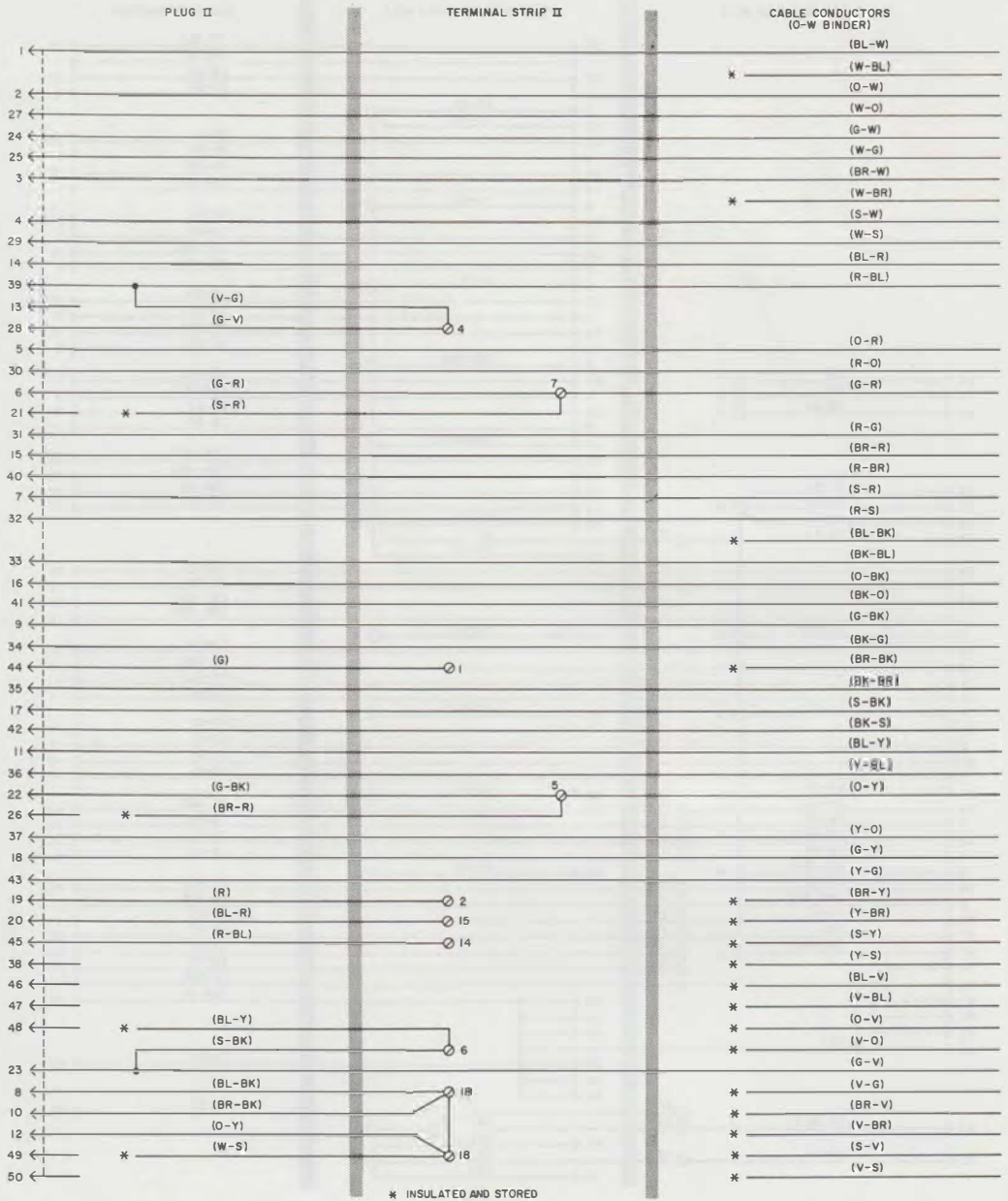


Fig. 9—A50D (O-W Binder) Connector Cable, Connections

TERMINAL ASSEMBLY NO. 2

TERMINAL ASSEMBLY NO. 1

CABLE CONDUCTORS

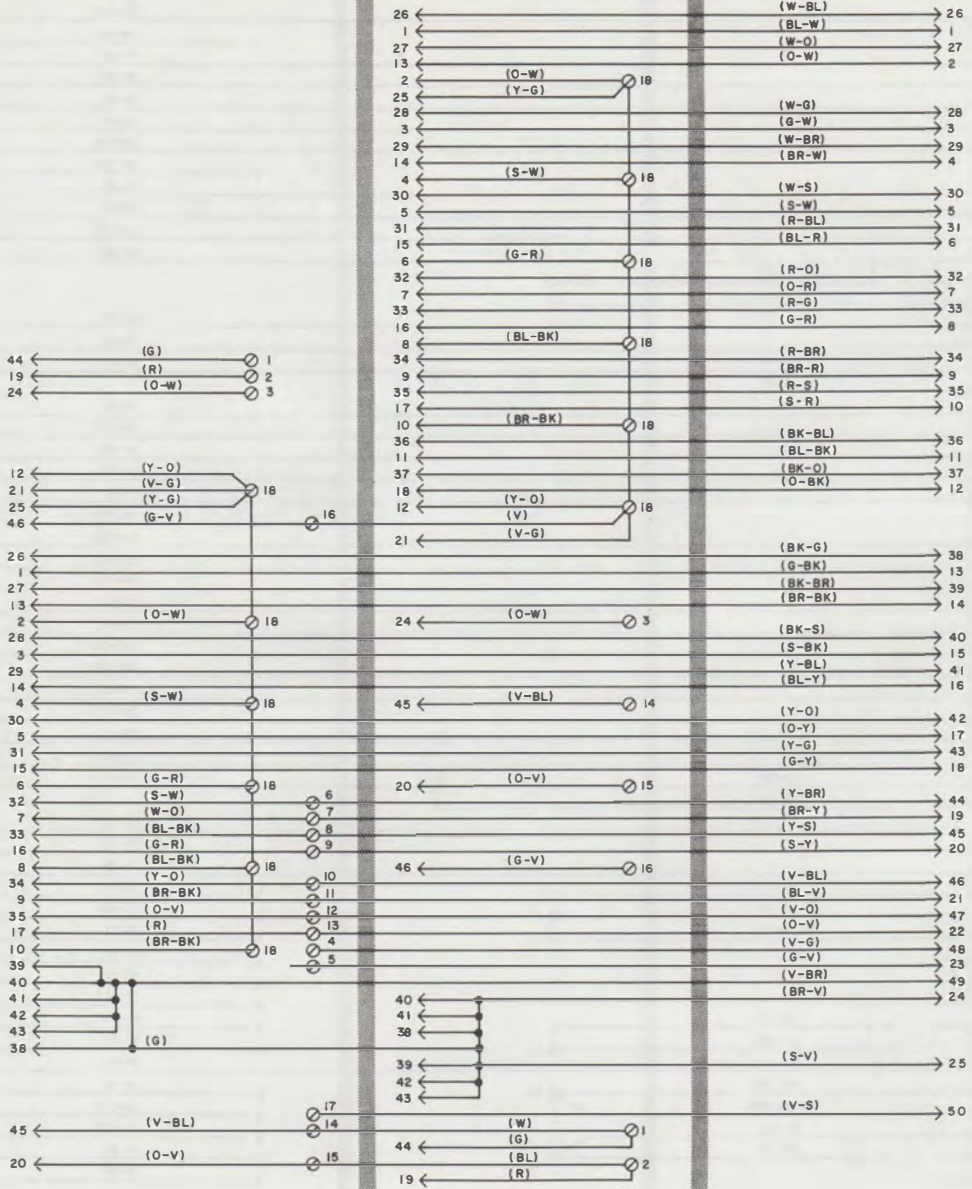


Fig. 10—B25C Connector Cable, Connections

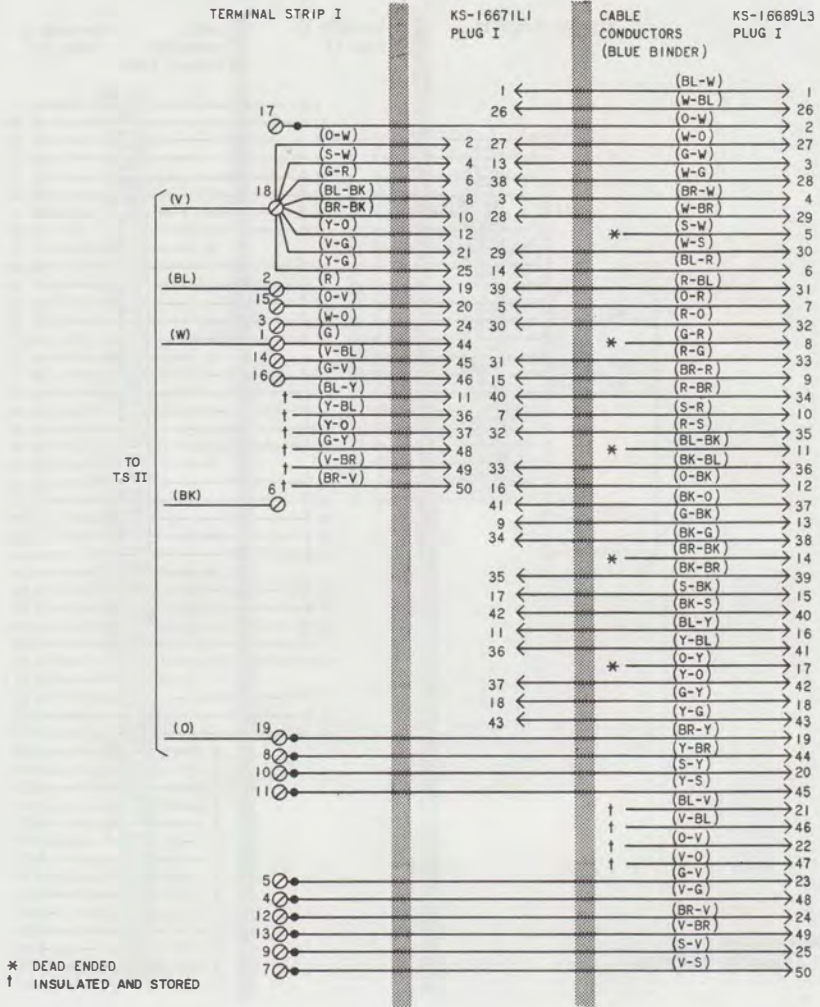


Fig. 11—B50B (BL Binder) Connector Cable, Connections

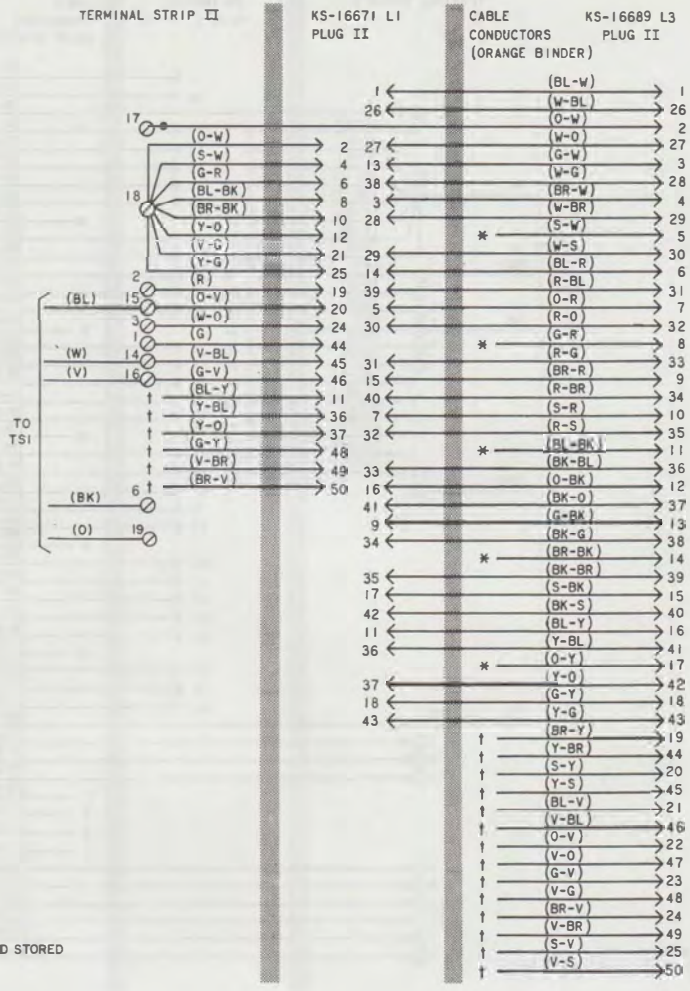


Fig. 12—B50B (O Binder) Connector Cable, Connections