

## CONNECTOR CABLES IDENTIFICATION

### 1. GENERAL

1.01 This section covers identification information for the A- and B-type connector cables which terminate on the customer premises.

1.02 This section is reissued to:

- Revise Table B
- Revise Fig. 10, 11, and 12.

1.03 Adapters, service fittings, terminals, and cover assemblies for use with mated connector cables, and cords are covered in the appropriate 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).

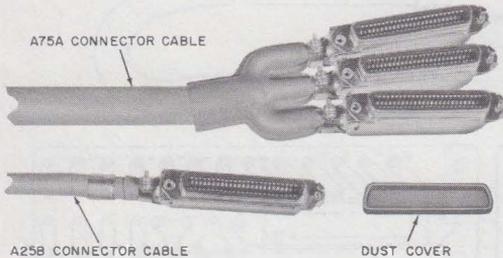


Fig. 1—Connector Cable Ends With Dust Cover Removed

- Consists of 24-gauge conductors that have a tinned or untinned finish.
- Vinyl insulation on individual conductors conforms to the even count color code scheme.

- Outer jackets of light olive gray vinyl.
- With the exception of the A12A, A12D, A12E, A20B, B20A, A40A, and A65A, cables are equipped with 50-contact connector(s) or plug(s).
- A12A, A12D, and A12E cables are equipped with 24-contact plugs.
- A20B cable has one 40-contact connector.
- B20A cable has one 40-contact connector and one 40-contact plug.
- A40A cable has one 30-contact connector and one 50-contact connector.
- A65A cable has one 30-contact connector and two 50-contact connectors.
- Nylon draw string under vinyl jacket facilitates removing 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.*

2.02 ♦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.♦

2.03 Those 12-pair connector cable conductors which are terminated at the connector or plug in non-standard color code sequence are shown

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

**2.04** 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 shows the cable plug, terminal strip, and lead color assignments.

**2.05** The B25C connector cable permits use of a 6051-type key (11 pickup and hold) fed through a 25-pair connector cable using a non-standard cut-down. Refer to Division 512 for wiring.

**2.06 Ordering Guide**

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

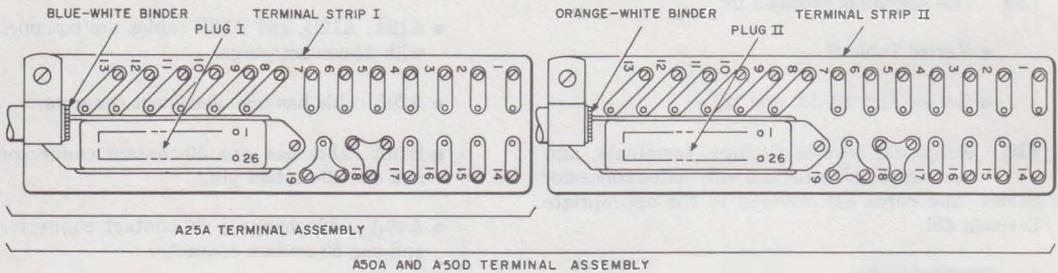


Fig. 2—View of Terminal Strip, Local Wiring Side

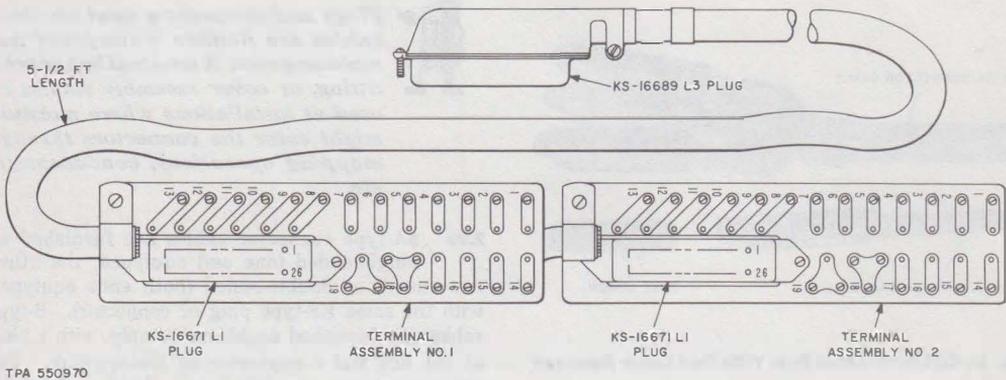


Fig. 3—B25C Connector Cable—View of Terminal Strip, Local Wiring Side

**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	1	24	KS-16785L6 Plug	301 Sw Sys Equip in Airport Towers and Radar Rooms	4 and 8	
A12B †			50			KS-16785L8 Plug			
A12D	Untinned		24			24	40	40	KS-16690L5 Connector
A12E		40	40	KS-16785L6 Plug	AUTOVON – No. 309 Sw Sys	4 and 8			
A20B	Untinned*	50	50	2	25	KS-16690L10 Connector	564-, 2564-, 565-, 2565-, Telephone Sets. † †	13, 50, 100, and 200	30, 80, 100, and 200
A25A						KS-16671L1 Plug †	6050 Keys	50 and 100	
A25B						KS-16690L1 Connector	233A KTUs, 634D, 565, and 2565-Type Telephone Sets; 1A2 Panels and App Units	13, 50, 100, and 200	30, 80, 100, and 200
A25C	Tinned	50	50	1	50	KS-16785L8 Plug	Consoles for Strategic Air Command Installations	Any length as specified	
A25D	Untinned*					KS-16689L3 Plug	761A PBX and 762A Small Hospital PBX	13, 20, 22, 24, and 26	3, 6, and 9
A25E	Tinned					KS-16671L1 Plug †	6051 Key in Antiaircraft Operations Control System Battery Locations	Any length as specified	
A25F	Tinned	1	50	1	50	KS-16690L1	12B and 14B Apparatus Units in 2A and 3A ACD Systems §	50, 100, and 150	
A25M † †						Shielded Connector Cable for use where RFI Encountered in Picturephone® Installations	Any length as specified		
A40A	Untinned*	80	50	2	50	KS-16690L1 Connector	635C Key Telephone Sets	50 and 100	30, 80, 100, and 200
A50A			30			KS-16690L8 Connector			
A50B			KS-16671L1 Plug †			6051 Keys			
A50C	Tinned	100	50	2	50	KS-16690L1 Connector	610A Key Telephone Sets	50, 100, 150, and 200	100 and 200
A50D (A&M Only)						KS-16785L8 Plug	Telephone Secretarial Service Concentrator-Identifier	50 and 100	
A50E						KS-16671L1 Plug †	12A and 14A Apparatus Units in 2A and 3A ACD Systems §	50, 100, and 150	
		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 **		
A65A	Untinned	130	50	3	50	KS-16690L1 Connectors (2)	584C Panel	6, 50, 100, 150, 200, and 250	30, 80, 100, and 200		
			30			30				KS-16690L8 Connector (1)	
A75A	Untinned*	150	50	3	50	KS-16690L1 Connector	630D and 632A Key Telephone Sets	6, 50, 100, 150, 200, and 250	30, 80, 100, and 200		
A75B	Tinned					KS-16785L8 Plug	618D Key and Amflite Indicator in No. 304 Switching System (NASA Projects)			50, 100	
A100C	Untinned*	200	50	4	50	KS-16690L1 Connector	4A and 6A Telephone Consoles	50, 100, and 200	30, 80, 100, and 200		
A100D				5	40		608B, 631B, and 637A Key Telephone 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		5		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			
B20A		40	40	1	40	KS-16690L10 Connector KS-16689L10 Plug	564, 2564, 565, 2565 Telephone Sets	50, 100, 150, 200, and 250	5, 15, 30, 60, and 100		
B25A		50	50		50	KS-16690L1 Connector KS-16689L3 Plug	Extension Cable to Connect Plug-Ended Key Telephone Sets to Connector or Plug-Equipped Bridging Terminals, Apparatus Cabinets, etc.				
B25C				KS-16689L3 Plug KS-16671L1 Plug (2)†		No. 6051 Keys, Terminal Strips Arranged in Tandem. 1A1-1A2 KTS Only.	5-1/2				
B50A		100	50	2	50	KS-16690L1 Connector KS-16689L3 Plug	Extension Cable for use between 800A PBX and Console.	50, 100, and 200			
B50B						KS-16689L1 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		KS-16689L1 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.

‡‡ An A20B connector cable may be used with 564-, 565-, 2564-, or 2565-type telephone sets if exclusion or speakerphone are not furnished. If either of these features are required, use an A25B. This restriction also applies to the B20A and B25A connector cables when used to extend the A20B or A25B.

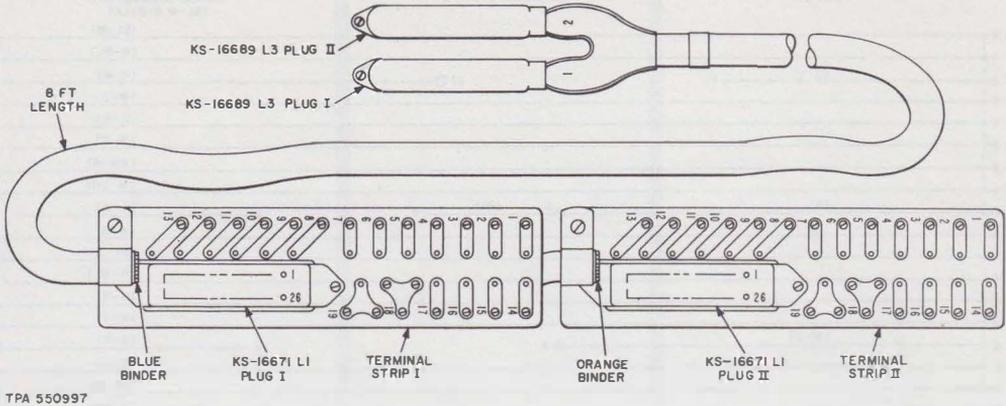


Fig. 4—B50B Connector Cable—View of Terminal Strip, Local Wiring Side

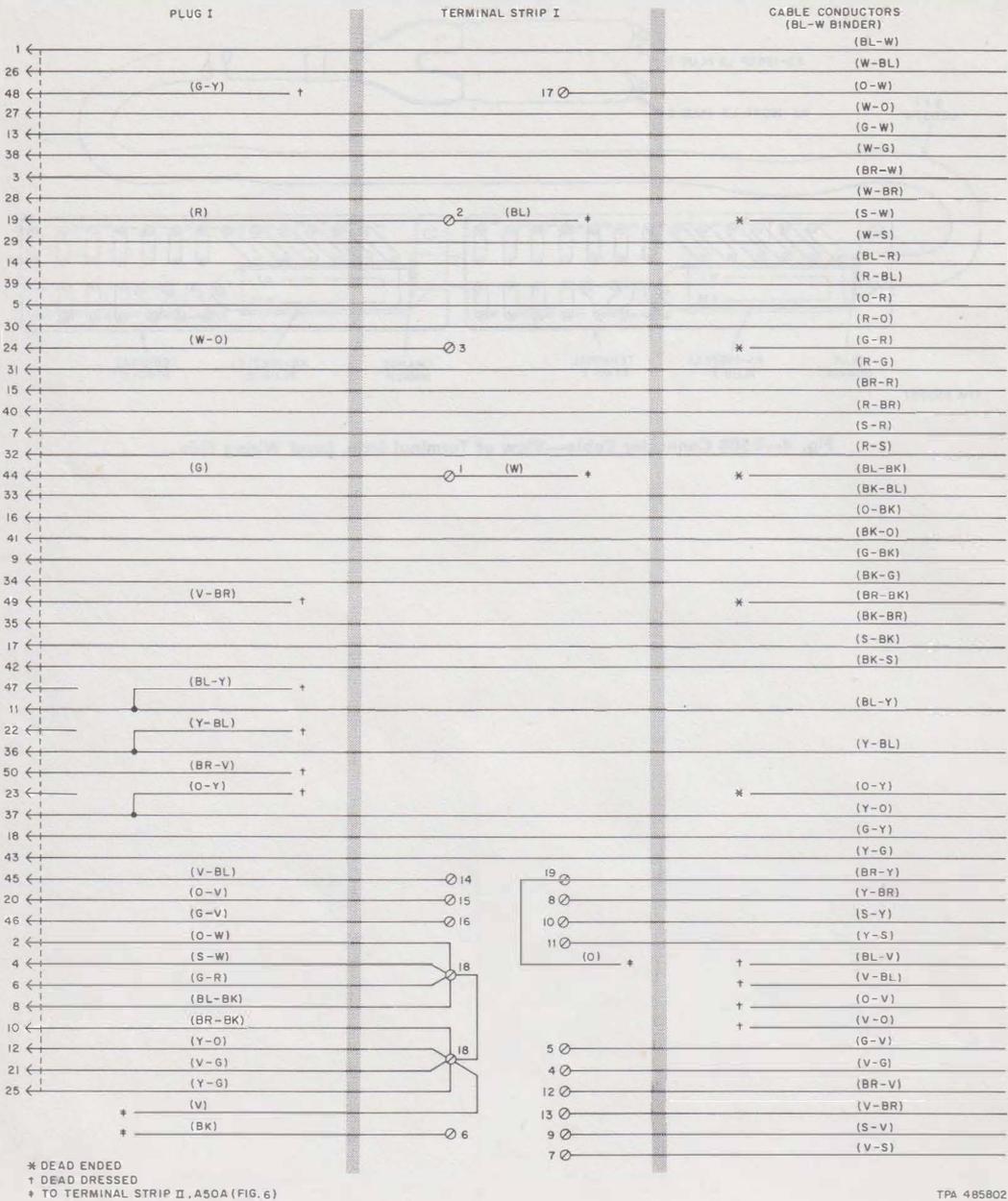
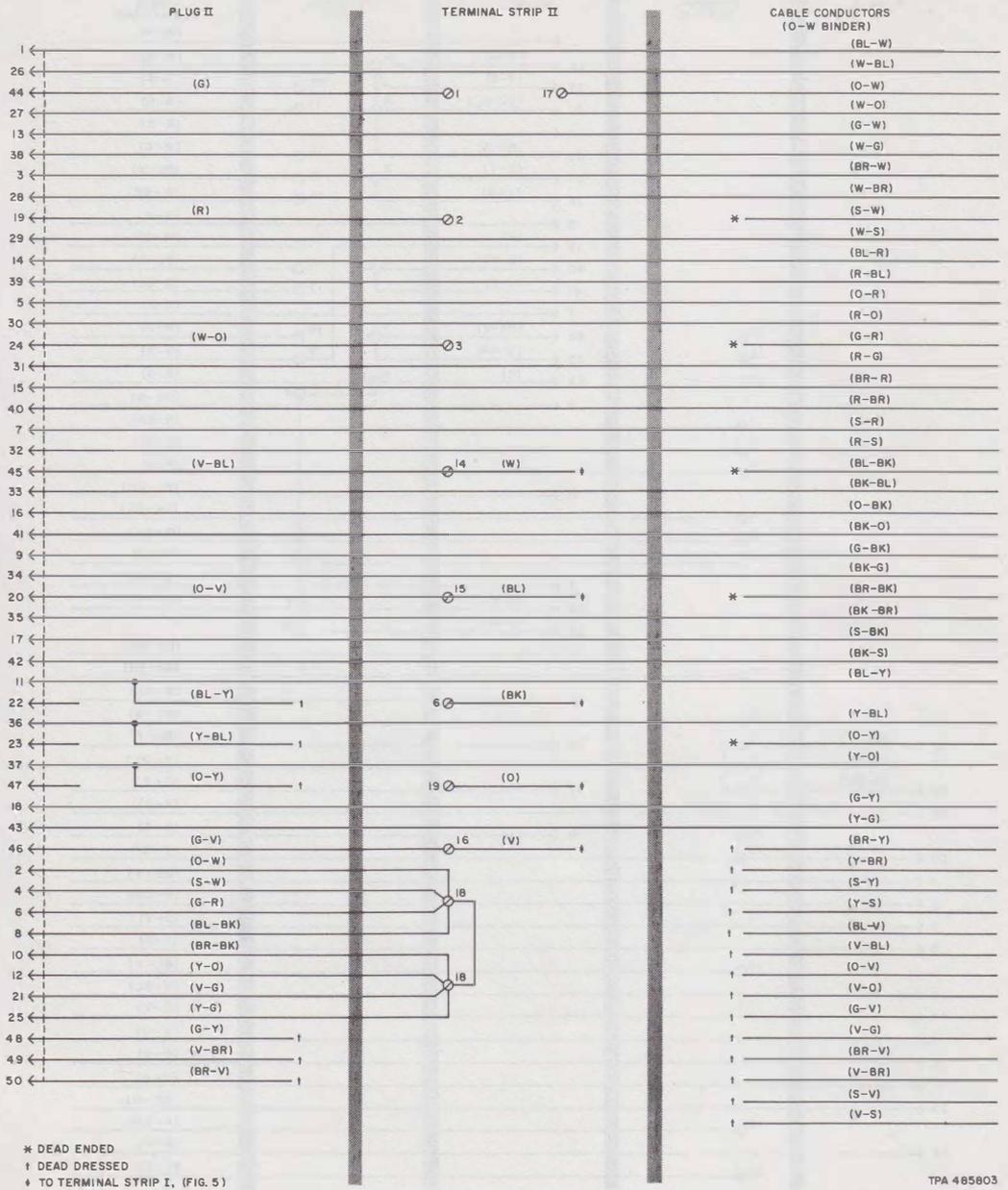


Fig. 5—A25A and A50A (BL-W Binder) Connections



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Fig. 6—A50A (O-W Binder) Connections

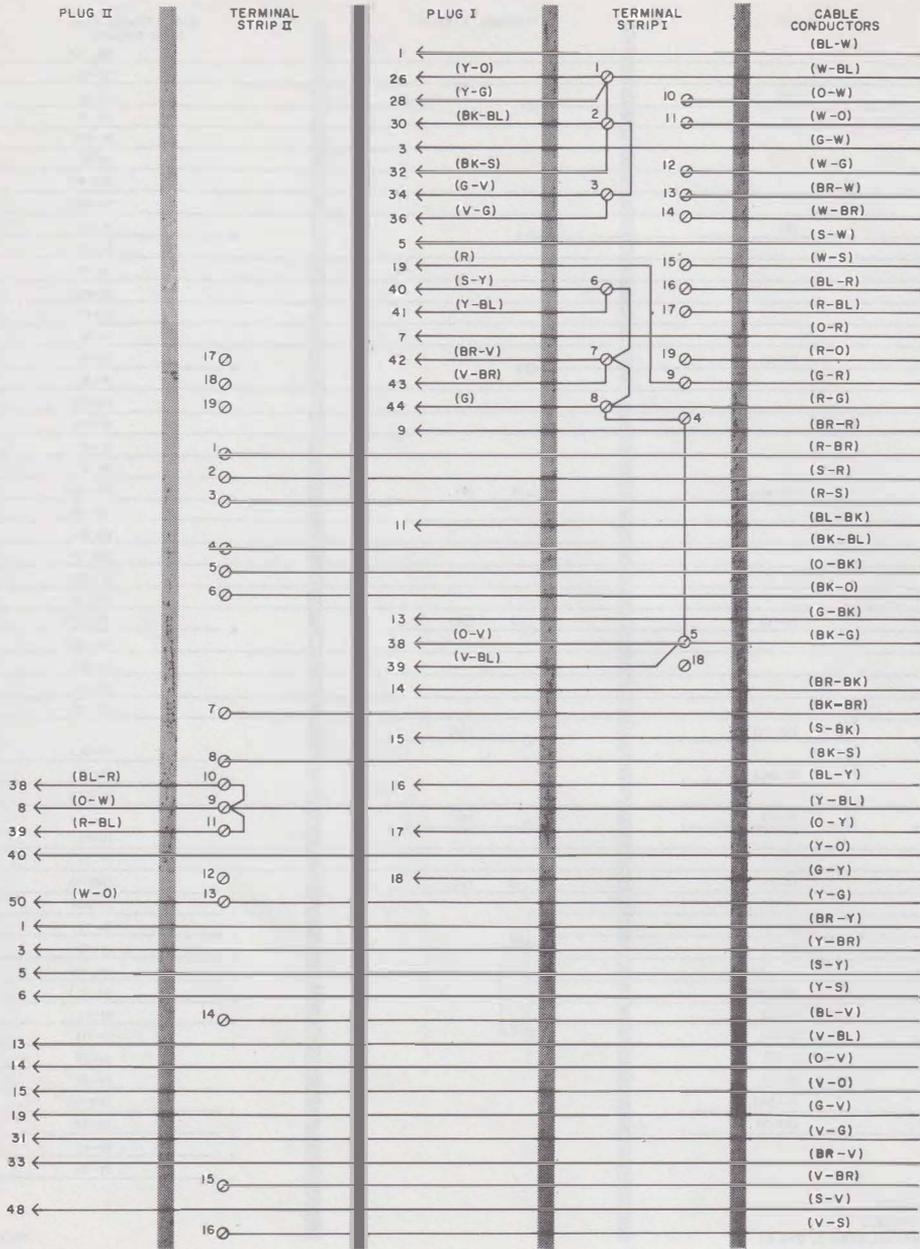


Fig. 7—A25E Connections



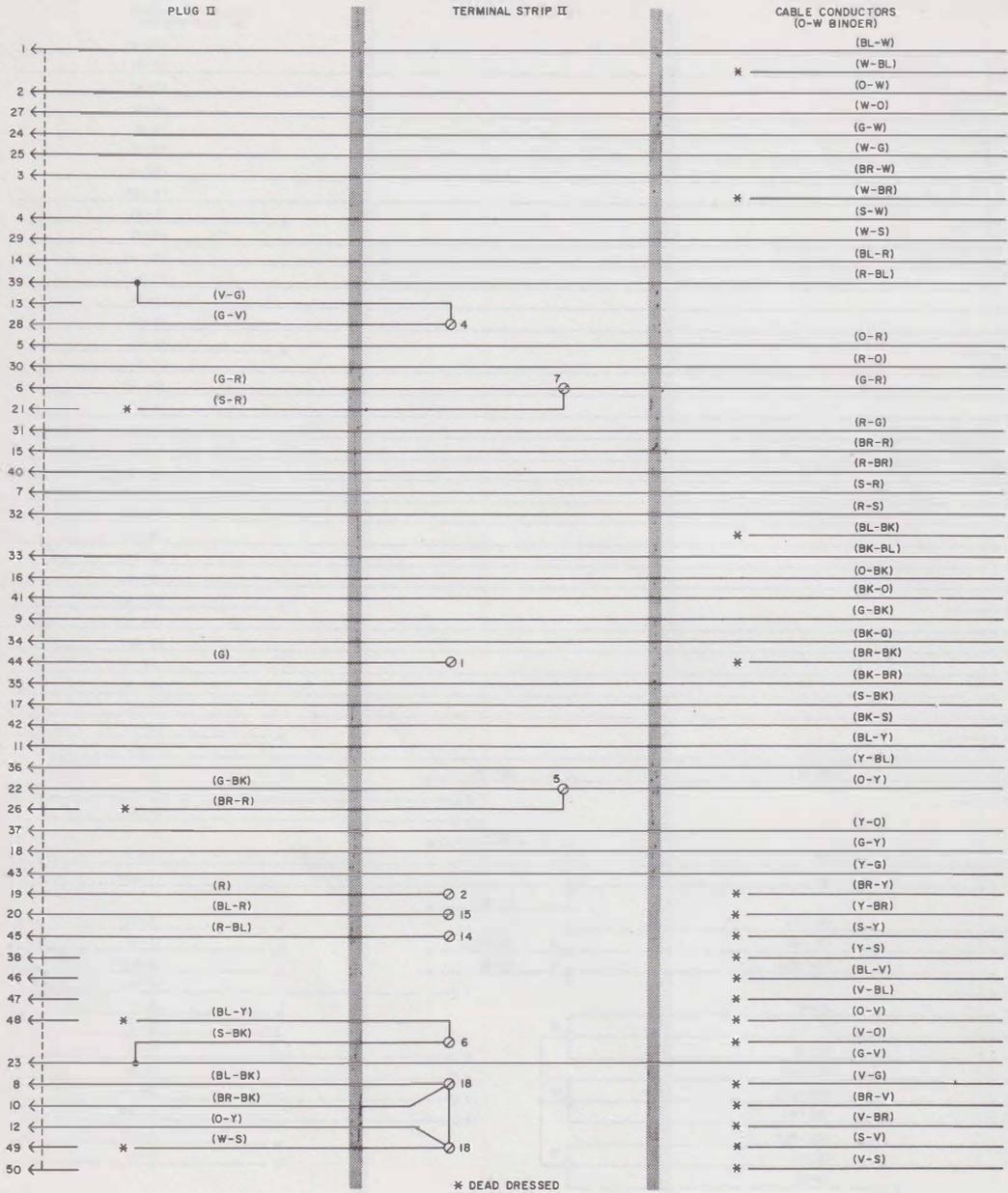


Fig. 9—A50D (A&M Only) (O-W Binder) Connections

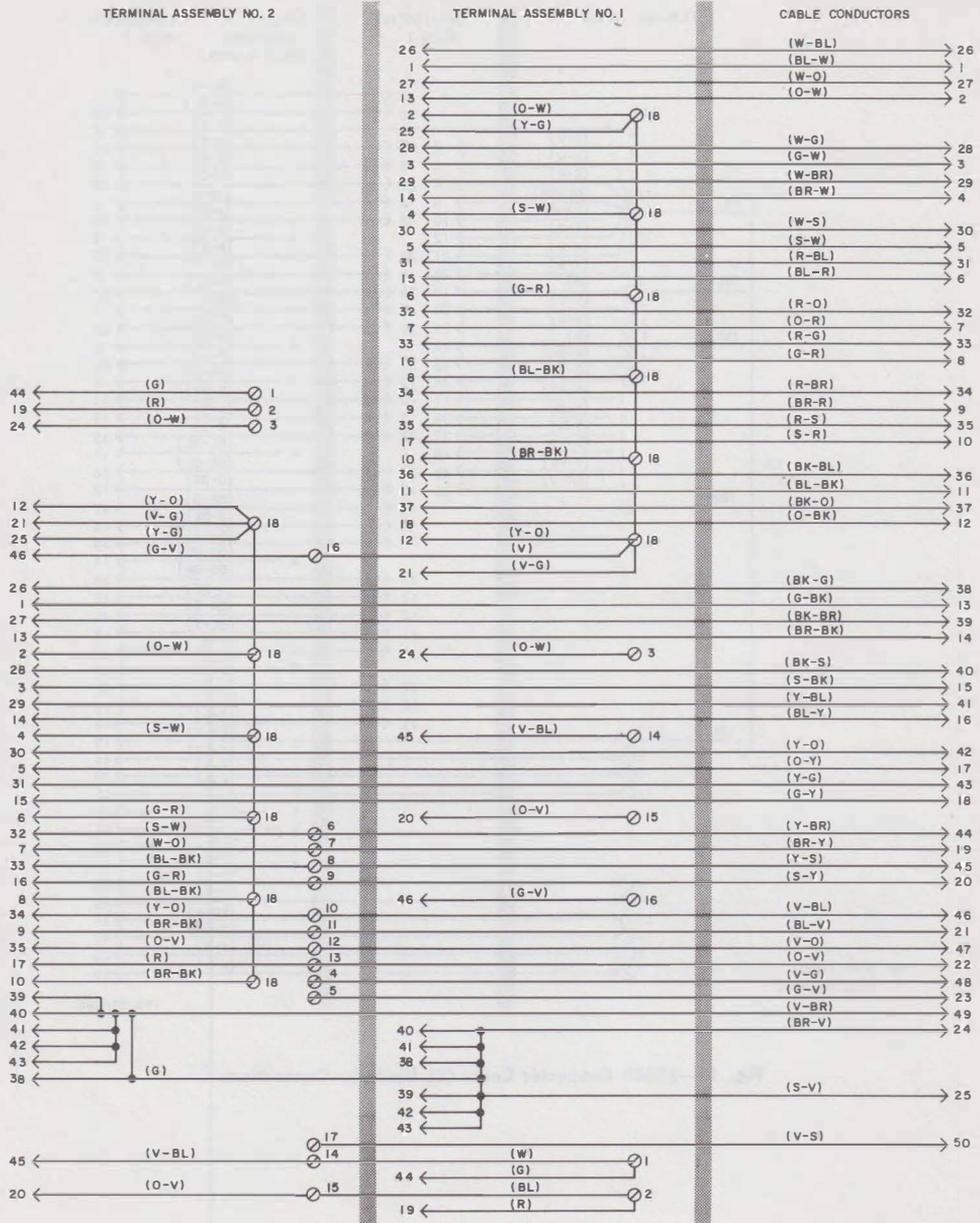


Fig. 10—B25C Connector Cable—Connections

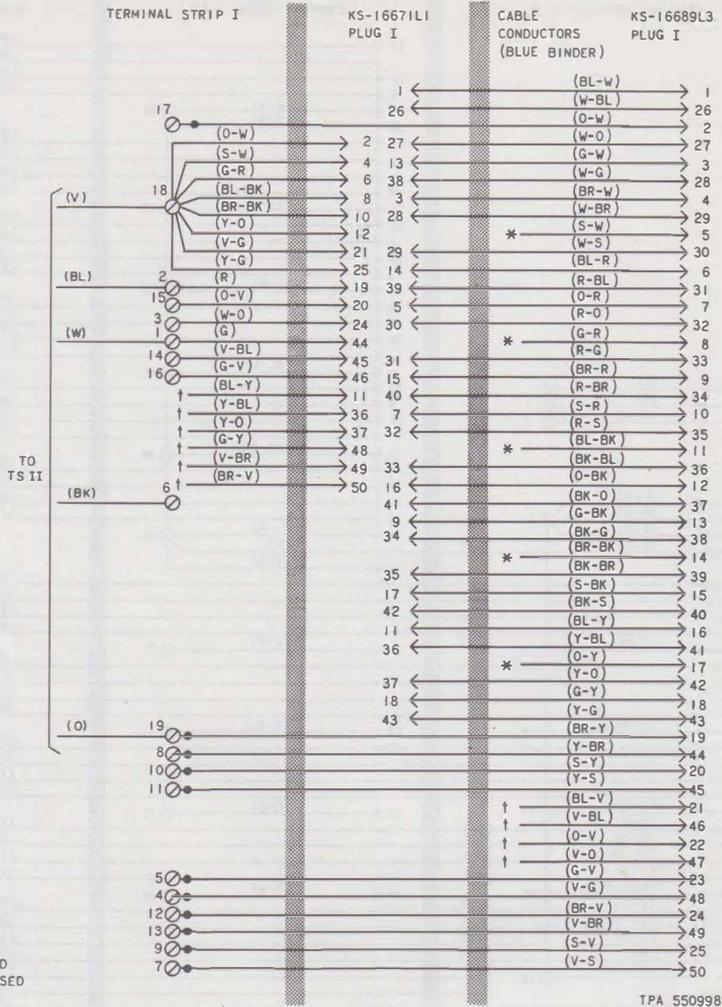


Fig. 11—B50B Connector Cable (BL Binder)—Connections

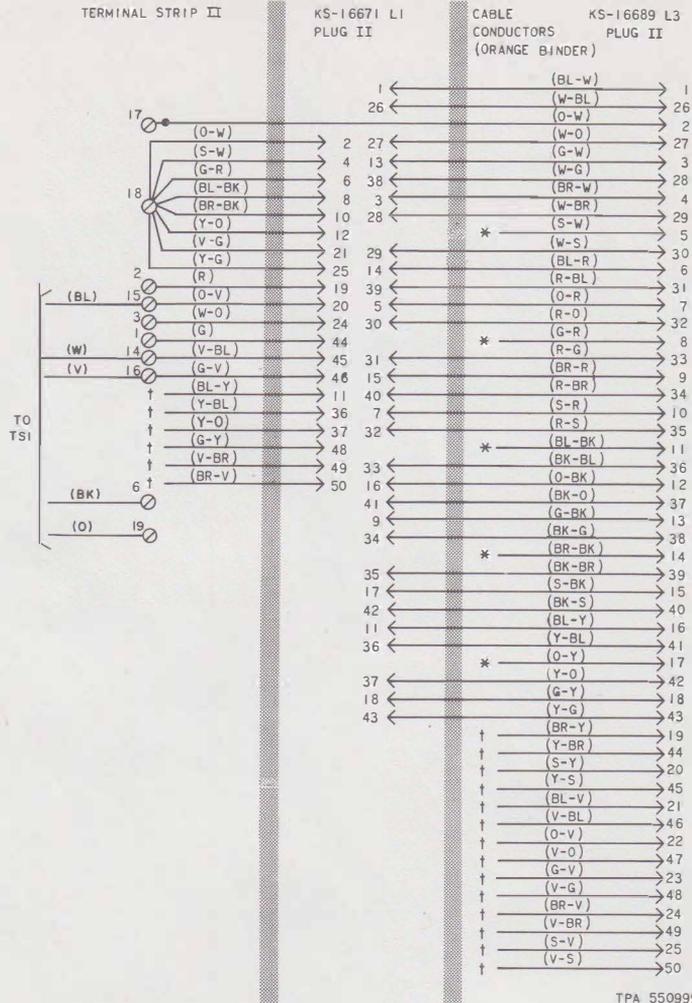


Fig. 12—B50B Connector Cable (O Binder) Connections