

SUBSCRIBER LOOP CARRIER 96 (SLC*-96)

MINI-HUT

SPLICING

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1. GENERAL

1.01 This section covers the splicing of the intermediate cables (derived pair, digital line, and miscellaneous pair) to the SLC-96 equipment and to the outside plant cables.

1.02 When this section is reissued, the reason for reissue will be listed in this paragraph.

2. SPLICING

2.01 The SLC-96 remote terminal equipment is connectorized with 710 connectors for the pairs that interconnect to the outside plant. Intermediate cables terminated on at least one end

with 710 connectors mating with the equipment are required for the interconnection of the equipment to the cross-connect field and/or the outside plant cables.

2.02 If a connector system other than the 710 system is employed, the 710 connectors may be cut off and the desired connector terminated. The cables coming from the SLC-96 channel bank (J1C141AB) and the 1A power cord and jack panel are color coded with the standard PIC color code sequence as shown in Fig. 1, 2, and 3.

2.03 The intermediate cables may be ordered by referring to the stocklist in ED-97948-30 "SLC-96 C Mini-Hut Remote Terminal Arrangements." Intermediate cables are marked at each end with the numbers shown in Table A. See Section 640-250-217 for a further description of these cables.

2.04 The 710 connector splicing is covered in Section 626-500-102 of the Bell System Practices.

2.05 The tools required for 710 connector splicing are as follows:

- B Bridge Removal Tool (AT-8745)
- C Insertion Tool (AT-8764)
- K Connector Presser (AT-8887)

A. Splicing Intermediate Cables at Equipment End

2.06 At the equipment end, both the equipment cables and intermediate cables are provided with 710 connectors. The splicing at this end consists of terminating the 710 connectors of the intermediate cables to those of the SLC-96 equipment as shown in Fig. 1, 2, and 3.

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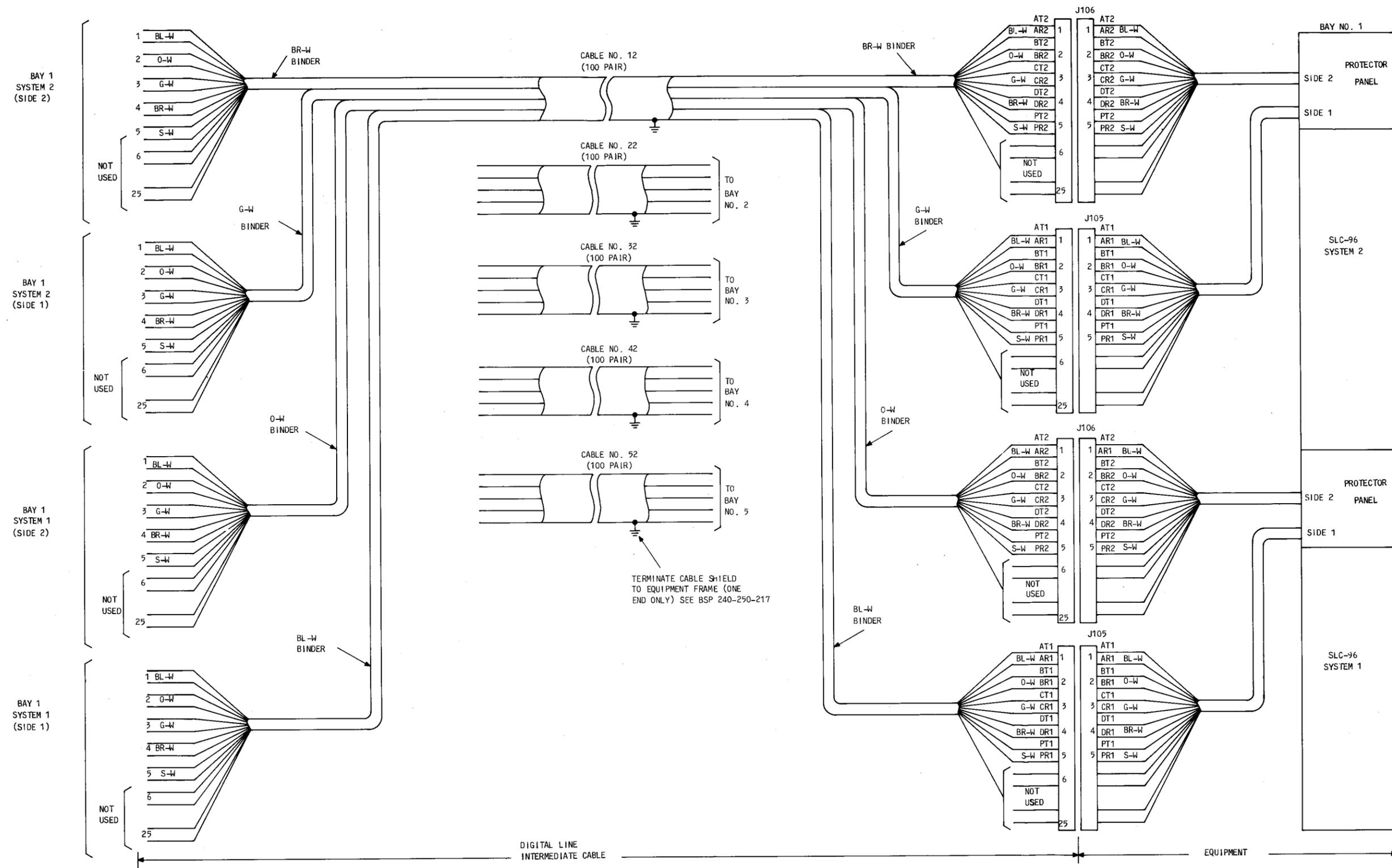


Fig. 1—Digital Line Splicing

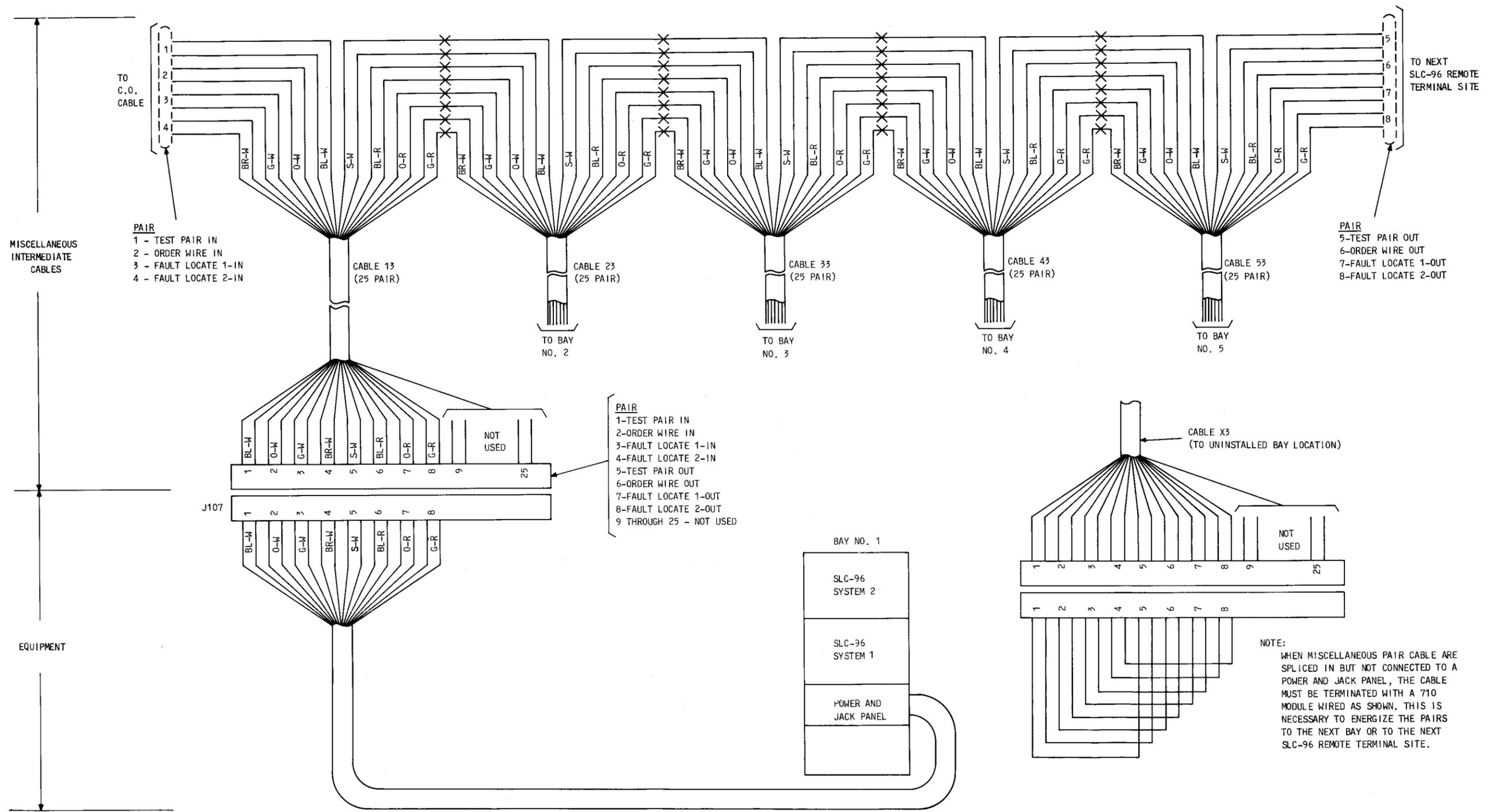


Fig. 2—Miscellaneous Pair Splicing

TABLE A

INTERMEDIATE CABLE IDENTIFICATION

BAY NUMBER	CABLE NUMBER		
	DERIVED PAIR	DIGITAL LINE	MISCELLANEOUS PAIR
1	11	12	13
2	21	22	23
3	31	32	33
4	41	42	43
5	51	52	53

2.07 After splicing is completed at the equipment end, the cables should be dressed along the side of the equipment frame and secured to the frame using cables ties (ED-97162-52 Group 16).

B. Splicing Intermediate Cables at Nonequipment End

Derived Pair Splicing

2.08 At the nonequipment end, the derived pair intermediate cables and the cross-connect and/or test access facility may be provided with 710 connectors. If so, the derived pair splicing at this end consists of terminating the 710 connectors of the derived pair intermediate cables to those of the cross-connect field and/or test access facility as shown in Table B.

Digital Line and Miscellaneous Pair Splicing

2.09 The nonequipment end of the digital line and miscellaneous pair intermediate cables are not provided with 710 connectors. Pair-by-pair splicing is the recommended method of connecting these pairs to the outside plant cables. The different splicing functions possible are shown in Fig. 4.

2.10 Pair identification at the nonequipment end for the digital line and miscellaneous pair cable is shown in Fig. 1 and 2, respectively.

2.11 The detailed splicing information (which intermediate cable pair connects to which outside plant cable pair) will be furnished on the engineering workprint.

C. Test Access Splicing

2.12 Splicing at the test access facility consists of connectorizing the cables from the 108P1-100HA terminal boards with 710 connectors and terminating the connectors to the derived feeder cables and the outside plant cable to an external interface.

TABLE B

SPLICING OF DERIVED PAIR INTERMEDIATE CABLES
AT NONEQUIPMENT END

(BINDER GROUPS) STUB CABLES FROM CROSS-CONNECT FIELD		(BINDER GROUPS) INTERMEDIATE CABLES
BL-W (1-25)	CABLE NO. 11	BL-W (1-25)
O-W (26-50)		O-W (26-50)
G-W (51-75)		G-W (51-75)
BR-W (76-100)		BR-W (76-96) Note 1
S-W (101-125)		S-W (101-125)
BL-R (126-150)		BL-R (126-150)
O-R (151-175)		O-R (151-175)
G-R (176-200)		G-R (176-196) Note 1
BR-R (201-225)		BL-W (1-25)
S-R (226-250)		O-W (26-50)
BL-BK (251-275)		G-W (51-75)
O-BK (276-300)	CABLE NO. 21	BR-W (76-96) Note 1
G-BK (301-325)		S-W (101-125)
BR-BK (326-350)		BL-R (126-150)
S-BK (351-375)		O-R (151-175)
BL-Y (376-400)		G-R (176-196) Note 1
O-Y (401-425)		BL-W (1-25)
G-Y (426-450)		O-W (26-50)
BR-Y (451-475)		G-W (51-75)
S-Y (476-500)		BR-W (76-96) Note 1
BL-V (501-525)		S-W (101-125)
O-V (526-550)		BL-R (126-150)
G-V (551-575)	O-R (151-175)	
BR-V (576-600)	G-R (176-196) Note 1	
BL-W-R (601-625)	CABLE NO. 41	BL-W (1-25)
O-W-R (626-650)		O-W (26-50)
G-W-R (651-675)		G-W (51-75)
BR-W-R (676-700)		BR-W (75-96) Note 1
S-W-R (701-725)		S-W (101-125)
BL-R-R (725-750)		BL-R (126-150)
O-R-R (751-775)		O-R (151-175)
G-R-R (776-800)		G-R (176-196) Note 1
BR-R-R (801-825)		BL-W (1-25)
S-R-R (826-850)		O-W (26-50)
BL-BK-R (851-875)		G-W (51-75)
O-BK-R (876-900)	CABLE NO. 51	BR-W (76-96) Note 1
		S-W (101-125)
		BL-R (126-150)
		O-R (151-175)
		G-R (176-196) Note 1

May be
spliced to
test access
(See Note 2)

- Notes: 1. Four pairs not used.
2. The example shown reflects that as many derived pairs as possible are spliced to the cross-connect field with the remaining derived pairs to the test access facility. However, in reality, as many derived pairs (from any system) as desired may be spliced to the test access facility.

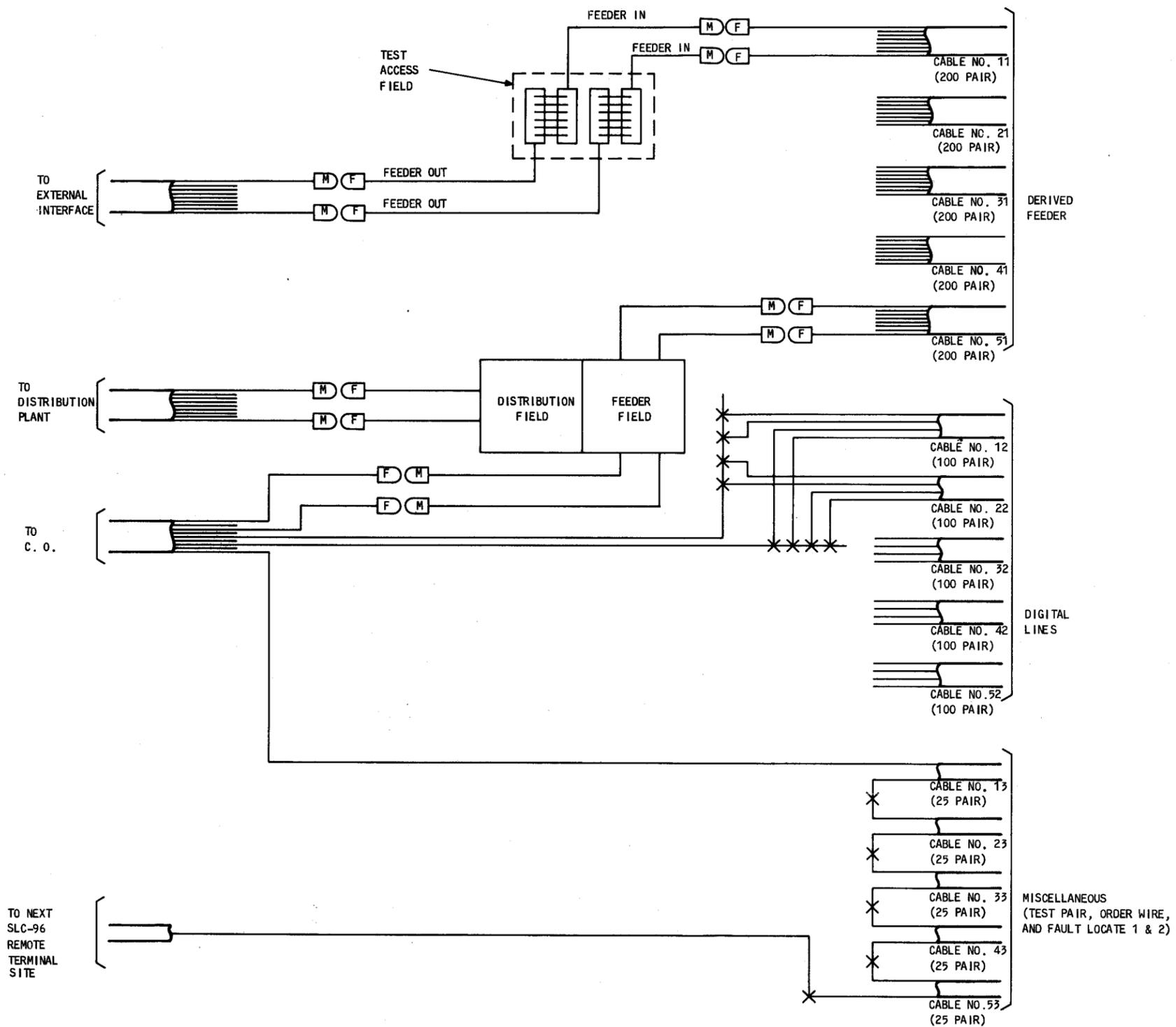


Fig. 4—Splicing at Nonequipment End

2.13 Male connectors (710-BD-25) shall be spliced to the 108P1-100HA cables marked 1S and 3L, and female connectors (710-SD-25) shall be spliced to the cables marked 4L and 2S. See

Fig. 5 and Table C. Pair identification for the 710 connector and the 108P1-100HA cables is shown in Fig. 6.

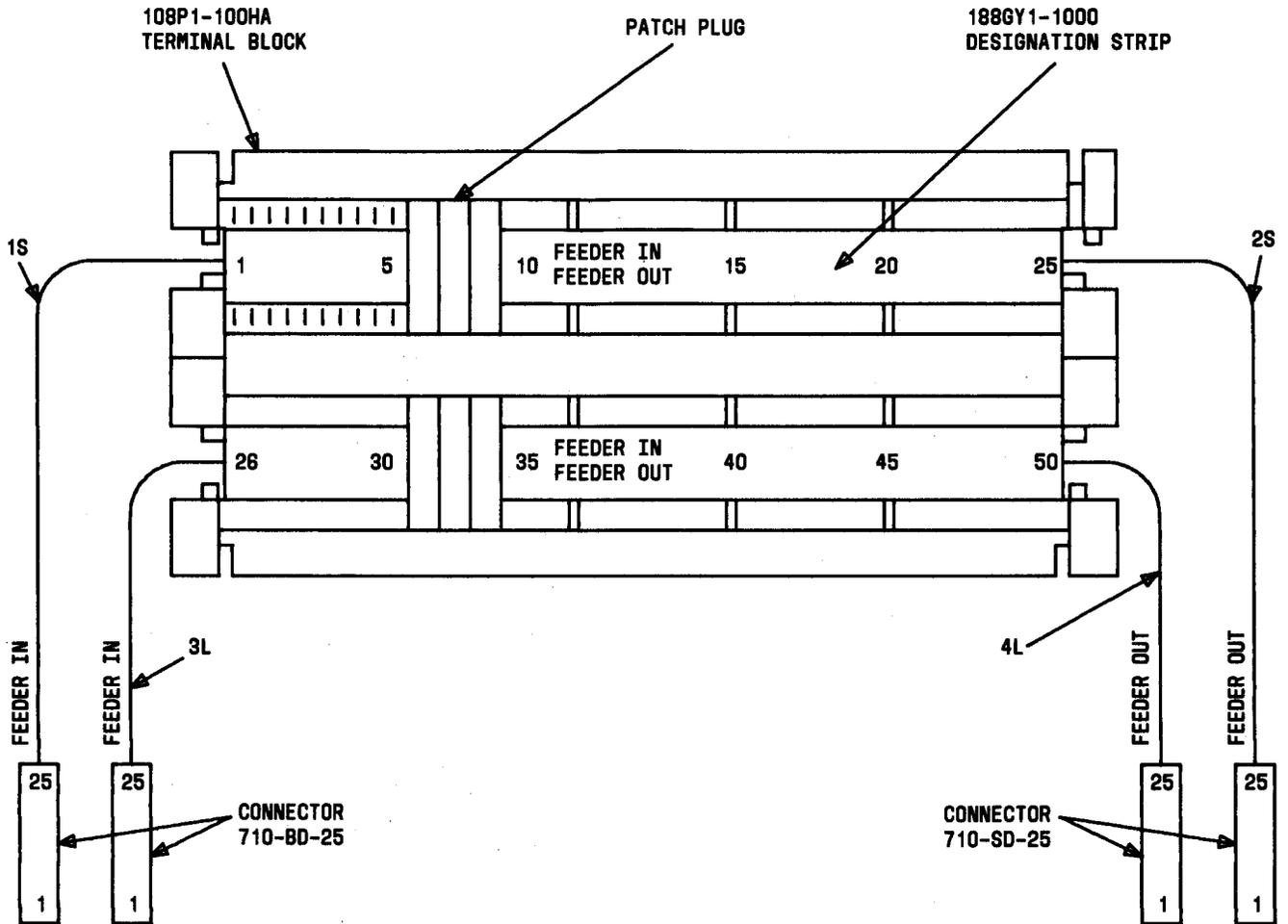


Fig. 5—Test Access Terminal Block

TABLE C

TERMINAL NUMBER SEQUENCE

25 PAIR SEQUENCE TERMINAL COUNT	CABLE BINDER CODE	CONNECTOR	FUNCTION
1-25	2S	710-SD-25	FEEDER-OUT
26-50	4L	710-SD-25	FEEDER-OUT
1-25	1S	710-BD-25	FEEDER-IN
26-50	3L	710-BD-25	FEEDER-IN

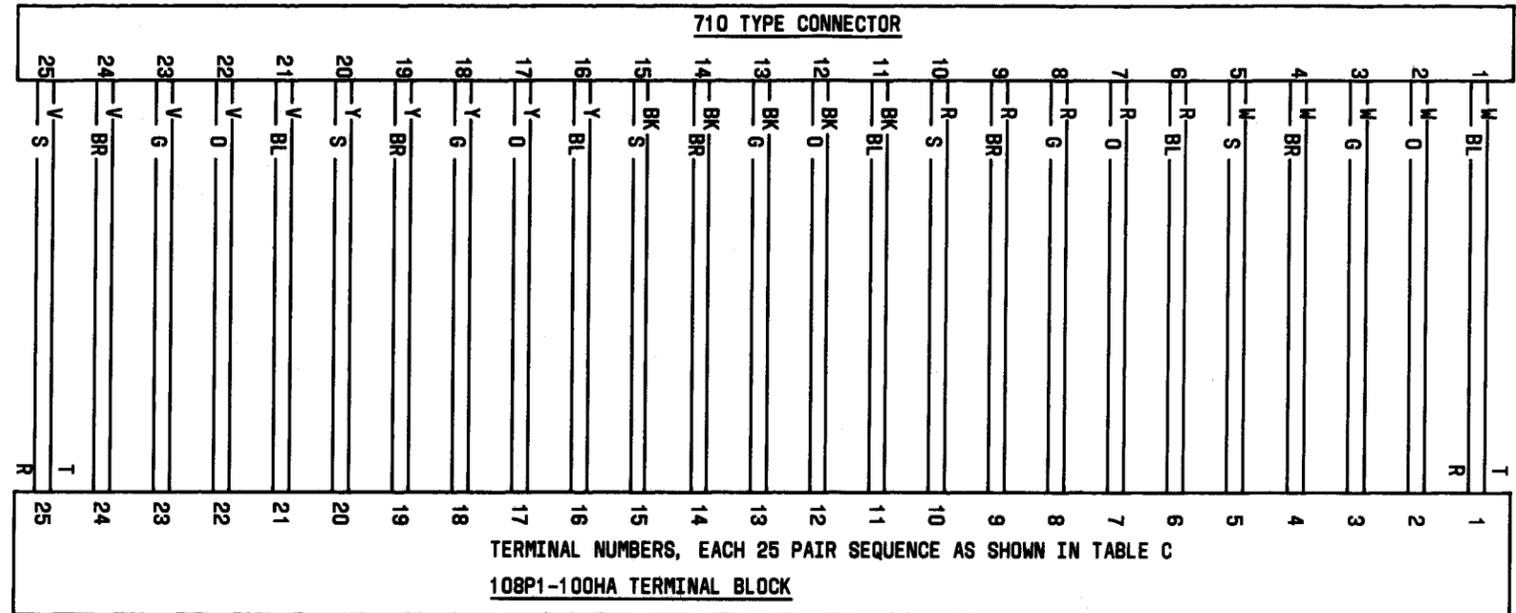


Fig. 6—Pair Identification

2.14 After the 710 connectors have been spliced, the cables shall be dressed in the splice chamber and secured to the cable bars with cable ties. The 710 connectors on the feeder-in cables shall be terminated to the derived feeder cables. The 710 connectors on the feeder-out cables shall be terminated to the outside plant external interface cable as shown in Fig. 4.

2.15 The detailed splicing information (which feeder-out cable pair connects to which outside

plant external interface cable pair) will be furnished on the engineering workprint.

3. TERMINAL FIELD MARKING

3.01 The marking of a 108-type block feeder field, terminating derived pairs from the SLC-96 equipment, is shown in Fig. 7.

108-TYPE TERMINAL BLOCK

1	25
PG201 ³⁸⁴	
26	50
51	75
PG201	
76	96 DEAD
1	25
PG201	
26	50
51	75
PG201	
76	96 DEAD
1	25
PG201	
50	
1	
25	
PG201	
26	50
51	75
PG201	
76	96 DEAD
DEAD ¹	
OX	
DEAD ¹	
DEAD ¹	0 _W
OX	
DEAD ¹	

NOTES

1. THESE POSITIONS CORRESPOND TO DIGITAL LINE PAIRS, TEST PAIRS, AND FAULT LOCATE PAIRS WHICH DO NOT APPEAR IN THE FEEDER FIELD. SEE WORKPRINT FOR THE NUMBER AND PAIR LOCATION OF EACH. THESE PAIRS WILL NOT NECESSARILY BE GROUPED AS SHOWN.
2. THE ORDER WIRE PAIR SHOULD APPEAR IN THE FEEDER FIELD.
3. THE FEEDER PAIRS DERIVED FROM THE SLC-96 EQUIPMENT SHOULD BE MARKED WITH YELLOW DESIGNATION STRIPS.
4. SLC-96 DERIVED PAIRS ARE TO BE CONSIDERED PART OF A CABLE TO BE LABELLED PG (FOR EXAMPLE PG201 OR PG6, ETC) THAT APPEARS BETWEEN THE REMOTE TERMINAL AND THE FIRST CROSS CONNECT POINT AND ALSO BETWEEN THE MAINFRAME AND THE RESPECTIVE SLC-96 CENTRAL OFFICE TERMINAL. ONLY ONE PG CABLE SHOULD SERVE A REMOTE TERMINAL SITE.

Fig. 7—Terminal Field Marking