10-TYPE AND 12B1 CABLE STUBS
DESCRIPTION AND INSTALLATION

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1. GENERAL

1.01 This section covers the description and installation of 10-type and 12B1 cable stubs. The stubs can be joined to paper, pulp, or plastic insulated conductor cables. They are used between two pressurized cables or between a pressurized and nonpressurized cable to keep the cables separated pneumatically.

1.02 This section is reissued to add the 12B1 cable stub. Revision arrows are used to emphasize the more significant changes.

2. PRECAUTIONS

2.01 Do not bend the stub within 6 inches of the plug.

2.02 ***Do not place the cable stub under tension.***

2.03 When anchoring the cable stub to a pole with cable clamps, place the clamps at least 12 inches from the plug.

3. DESCRIPTION

3.01 ***The 10A1 cable stub*** contains an air plug and is fully color-coded 24-gauge PIC cable with an ALPETH sheath.

3.02 ***The 10B1 cable stub*** contains an air plug and is fully color-coded 24- and 26-gauge PIC cable with a PASP sheath. The 10B1 cable stub is intended for use in areas where protection against gophers or lightning is required.

3.03 ***The 10C1 cable stub*** contains an air plug and is fully color-coded 22-gauge expanded polypropylene cable with an ARPAP sheath. The 10C1 cable stub is intended for use in maintenance offices and intermediate powering stations of the T2 Carrier System.

3.04 ***The 12B1 cable stub*** contains an air plug and is a noncolor-coded PIC cable with a PASP sheath. The 12B1 cable stub is intended for use with the Reenterable in Cable Splice (RICS) Systems.

3.05 A 10A1 cable stub is illustrated in Fig. 1. The 10B1, 10C1, and 12B1 cable stubs are similar in outward appearance to the 10A1 cable stub. Stub cable combinations are shown in Table A.

3.06 For the 10A1, 10B1, and 10C1, a factory installed air plug is located 10 feet from one end of the cable stub. The plug is made with plugging compound and a polyethylene tube. It varies in diameter from 1.13 inches outside diameter (OD) for the 50-pair stub to 4.25 inches OD for the 900-pair stub. The lengths of the plugs vary from 9 inches for the 50-pair stub to 18 inches for the 900-pair 10B1 cable stub. The code and size designation is stamped on the air plug.

3.07 The 12B1 has a factory installed air plug 10 feet from one end. The plug is made with plugging compound and a polyethylene tube. The plug varies in diameter from 2.12 inches outside diameter (OD) for the 600-pair stub to 2.74 inches (OD) for the 1800-pair stub. The plug length is 18 inches for all sizes of the cable stub. The code and size designation is stamped on the air plug.

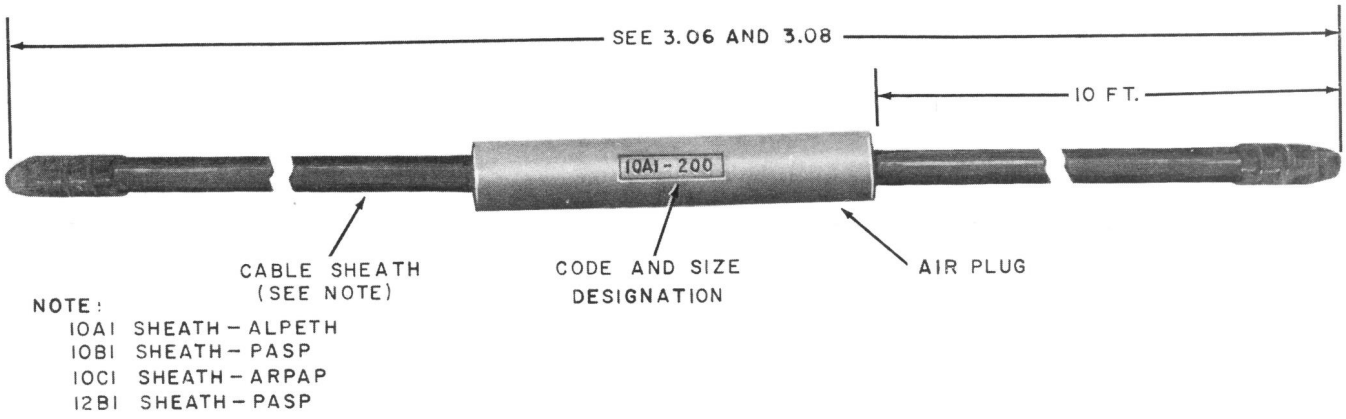

Fig. 1—10A1 Cable Stub

TABLE A

STUB CABLE COMBINATIONS

STUB CABLE	PAIR SIZES	STANDARD LENGTHS (FEET)	OPTIONAL LENGTHS (FEET)
10A1	50, 100, 200, 300, 400 600, 900, (24 gauge)	20, 30, 40, 50 30	30 to 100 in increments of 10 20, 40, 50
10B1	50, 100, 200, 300, 400 600, 900 (24 gauge) 1200, 1500, 1800 (26 gauge)	20, 30, 40, 50 30 30	30 to 100 in increments of 10 20, 40, 50 20, 40, 50
10C1	27, 52, 104 (22 gauge)	20, 30, 40, 50	30 to 100 in increments of 10
12B1	300, 600, 900 (24 gauge) 1200, 1500, 1800 (26 gauge)	30 30	20, 40, 50 20, 40, 50

3.08 The 12B1 cable stub uses the same basic cable core construction as standard air core PIC cable except that half of the conductors are white. There are only five unique pairs: blue-white, orange-white, green-white, brown-white, and slate-white. The 600- and 900-pair sizes are made up of 50-pair multiunits containing 12 and 13 primary units. The 1200, 1500, and 1800 pairs are made up of 100-pair multiunits containing 25-pair primary units. The core diagrams are shown in Fig. 2.

3.09 Electrical continuity is provided across the air plug by means of a grounding harness

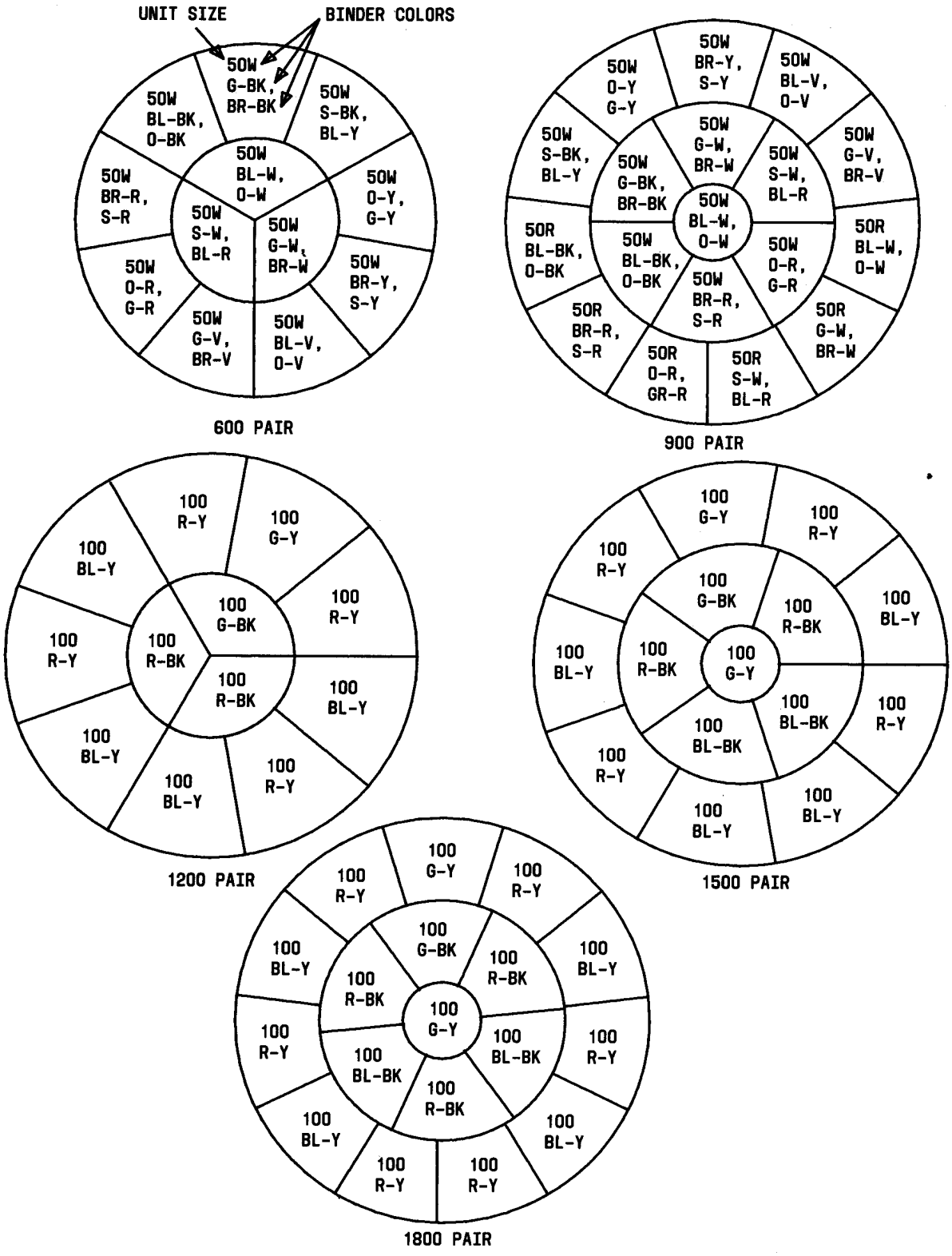

Fig. 2—Core Diagrams

connected between the metallic sheaths. Two to eight grounding harnesses are used for various sizes of stub cable to match the conductivity of the cable shield. ***These grounding harnesses are not intended to restore mechanical strength to the cable.***

4. INSTALLATION

4.01 The cable stub is placed the same as any other cable (see paragraph 2.02). The pressure plug is airtight at both ends; either end may be connected to the pressurized cable.

4.02 The 12-type stub is equipped with a factory installed pressure plug. If an air source is not available, an air pipe bypass should be provided from the main splice to the RICS closure to provide air pressure to the RICS. This pipe must have a valve so that the pressure can be removed from the RICS for reentry, thus eliminating buffering. The 12-type stub may be used without a pressure plug, thus eliminating the air pipe; however, buffering is now required during reentry of the RICS. A 10-type stub is required to provide interface between RICS and waterproof distribution cable.