

## CODED PLUGS—500 THROUGH 514

### DESCRIPTION

#### 1. GENERAL

**1.01** This section lists and illustrates coded plugs within the part or type number range of 500 through 514, used for maintenance and operation of equipment in central offices.

**1.02** The information provided in this section was previously shown in Section 032-510-101, Issue 11. In addition, the 508B, C, D, E, F, G, H, J, K, L, and M plugs were added. The Equipment Test List is not affected.

#### 2. DESCRIPTION OF PLUGS

**2.01 501A:** The 501A plug (Fig. 1) consists of a molded block of insulating material containing terminals that are intended for solder connections in the rear. The 501A plug is equipped with mounting lugs to be mounted to a printed wiring board. This plug has 16 terminals and is used on the J99253, E6 Repeater.

**2.02 502A, B, and C:** The 502-type plugs consist of a molded block of insulating material containing terminals that are intended for solder connections in the rear. The 502-type plugs are intended to be mounted on printed wiring boards.

(a) **502A:** The 502A plug (Fig. 2) has 21 terminals and mates with the 902A connector. The 502A plug is used in the D1, 24-channel pulse code modulation bank of the T1 Carrier System.

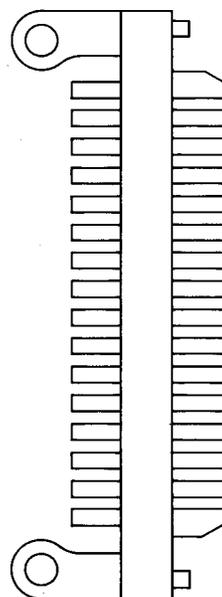
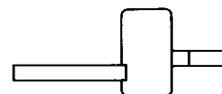


Fig. 1—501A Plug

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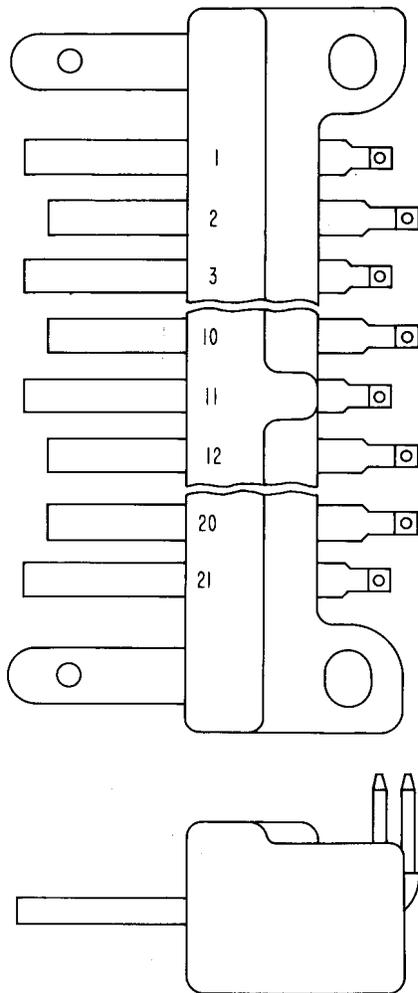


Fig. 2—502A or C Plug

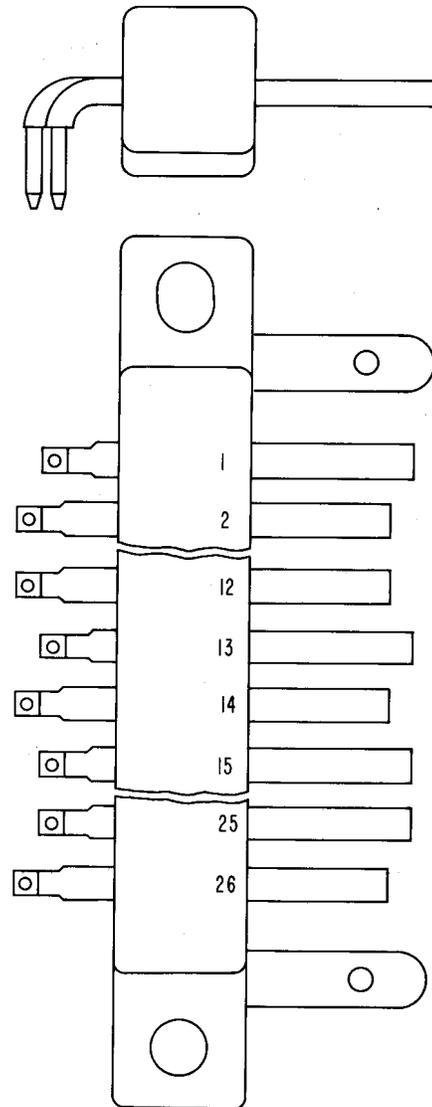


Fig. 3—502B Plug

(b) **502B:** The 502B plug (Fig. 3) has 26 terminals and mates with the 902B connector. The 502B plug is used in the D1, 24-channel pulse code modulation bank of the T1 Carrier System.

(c) **502C:** The 502C plug (Fig. 2) has 21 terminals that are in reverse order from the terminals shown in Fig. 2. The 502C plug is used in the J68381, 100A Protection Switching System.

**2.03 503A:** The 503A plug (Fig. 4) consist of a molded block of insulating material that contains terminals arranged for solder connections in the rear. The 503A plug mates with the 903A connector and is used in the J99271A Repeater.

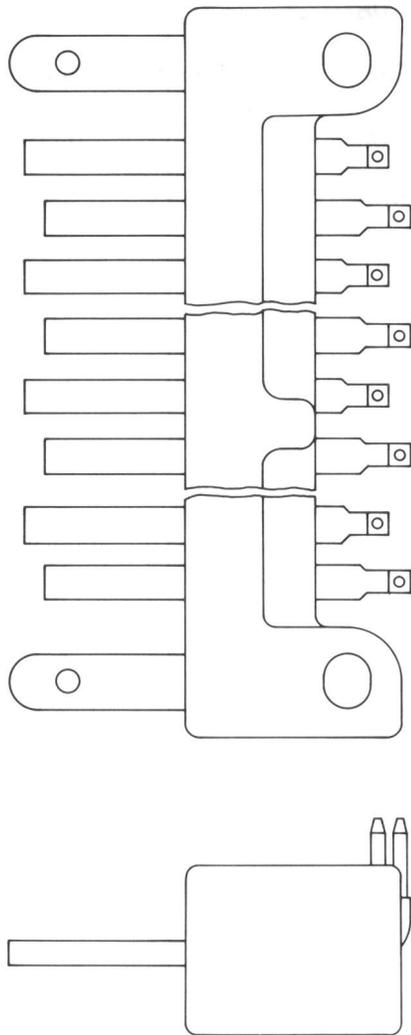


Fig. 4—503A Plug

**2.04 504A-49 and -50:** The 504A-49 and -50 plugs (Fig. 5) consist of a block of insulating material containing twelve terminals and a removable cap. Each terminal is equipped with a spring connector which permits friction contact with the 134 or equivalent cord tips. The 504A-49 and -50 plugs are used with portable telephone sets having 2- to 12-conductor mounting cords and mates with the 541A or 547A jack, in one position only.

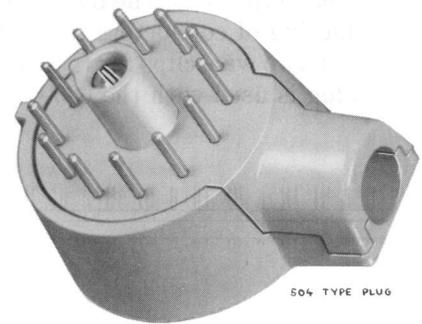


Fig. 5—504A-49 or -50 Plug

(a) **504A-49:** The 504A-49 plug is olive gray in color.

(b) **504A-50:** The 504A-50 plug is ivory in color.

**2.05 505A-49 and -50:** The 505A-49 and -50 plugs (Fig. 6) consist of a block of insulating material containing four terminals and a removable cap. The 505A-49 and -50 plugs mate with the 404B, 493A, 497A, 548A, or 550A jacks in one position only. The 505A-49 and -50 plugs are used with portable telephone sets having two-, three-, and four-conductor mounting cords.

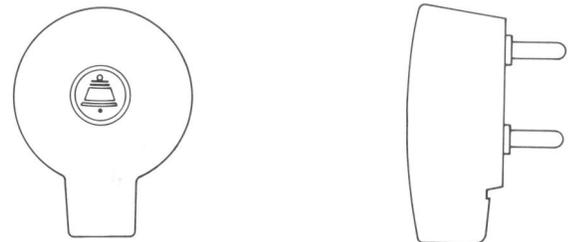


Fig. 6—505A-49 or -50 Plug

(a) **505A-49:** The 505A-49 plug is olive gray in color.

(b) **505A-50:** The 505A-50 plug is ivory in color.

**2.06 507A:** The 507A plug (Fig. 7) consist of 48 gold-plated blades with a plastic body. The 507A plug is arranged so that the blades will mate with the contact spring clip jacks on the terminal

cover of the 635-type keys. The back of the 507A plug permits soldering of conductors to the blades and is equipped with two wire clips for fastening to the key. The 507A plug is used with the 635-type keys.

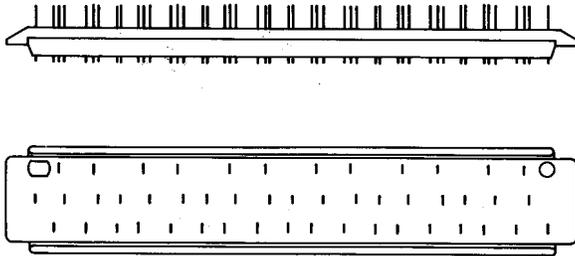


Fig. 7—507A Plug

**2.07 508-Type:** The 508-type (Fig. 8) are molded terminal plugs of insulating material, arranged for assembly of up to eight blade-type and cord-tipped conductors required for connections to individual buttons of key telephone sets.

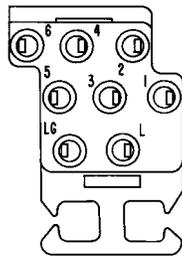


Fig. 8—508-Type Plug

- (a) **508A:** The 508A plug is aqua blue in color.
- (b) **508B:** The 508B plug is orange in color.
- (c) **508C:** The 508C plug is moss green in color.
- (d) **508D:** The 508D plug is light brown in color.
- (e) **508E:** The 508E plug is light gray in color.
- (f) **508F:** The 508F plug is white in color.
- (g) **508G:** The 508G plug is red in color.

- (h) **508H:** The 508H plug is black in color.
- (i) **508J:** The 508J plug is yellow in color.
- (j) **508K:** The 508K plug is violet in color.
- (k) **508L:** The 508L plug is rose pink in color.
- (l) **508M:** The 508M plug is white-green stripe in color.
- (m) **508N:** The 508N plug is white-red stripe in color.

**2.08 509A:** The 509A plug (Fig. 9) is a molded chaining plug of light beige insulating material, arranged for assembly of up to six blade cord-tipped conductors required for connections in multi-key telephone sets.

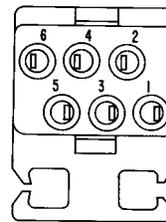


Fig. 9—509A Plug

**2.09 510A:** The 510A plug (Fig. 10) is a single coaxial-type plug having coaxially arranged inner and outer contacts. The 510A plug mates with the 612A and similar-type jacks at one end, and the other end is arranged for solderless wire connection. The 510A plug is not intended for termination of a coaxial cable and is used on the L5 hybrid transformers.

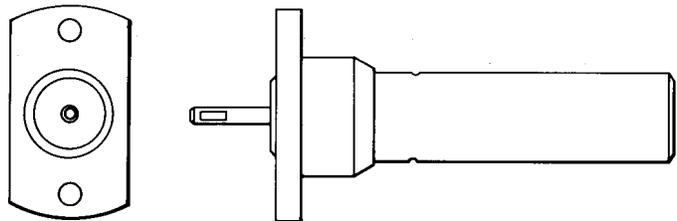


Fig. 10—510A Plug

**2.10 511A and B:** The 511A and B plugs (Fig. 11) consist of a molded plastic body with two molded plastic covers containing six contact assemblies. The 511A and B plugs are used in service observing the 4-wire Electronic Switching System (ESS).

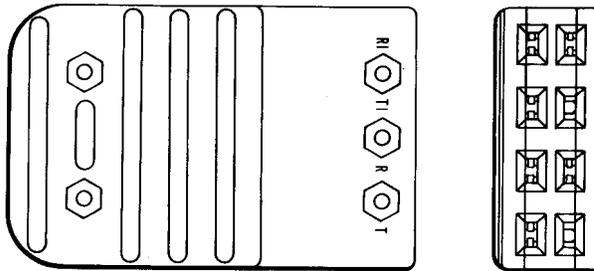


Fig. 11—511A or B Plug

(a) **511A:** The 511A plug is designed to mate with solderless wrapped terminals of the 78A1-64 connecting block.

(b) **511B:** The 511B plug is designed to mate with solderless wrapped terminals of the 78B1-64 connecting block.

**2.11 512A:** The 512A (Fig. 12) is a coaxial type plug. On the mounting end, the center conductor is arranged for soldered wire connections. The other end is arranged for use with 477A- or similar-type jacks. The 512A plug is not arranged for connection to a coaxial cable and is used with the KS-20796 earth-ground filter. This plug replaces the 472A plug.

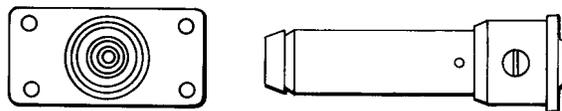


Fig. 12—512A Plug

**2.12 513A:** The 513A (Fig. 13) is a twin-patching type plug that consists of a pair of coaxial plug fingers mounted in a metal shell. The two plug fingers are connected together internally by means of flexible coaxial wire. The 513A plug is not arranged for cord terminations, and mates with the 560A, 568A, and 621A jacks. This plug is used on the J68922DA Line Access Switching Panel.

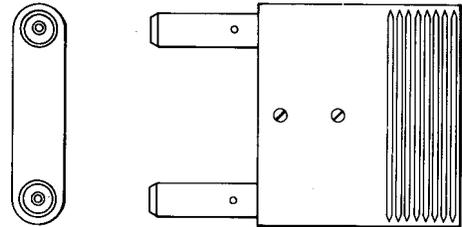


Fig. 13—513A Plug

**2.13 514A and B:** The 514A and B are coaxial-type plugs arranged for solderless shield connection to a 728A cable by means of a sleeve (KS-15712, L22). The 514A and B plugs mate with the 560A and similar-type jacks.

(a) **514A:** The 514A plug (Fig. 14) is used in the L5 Coaxial System.

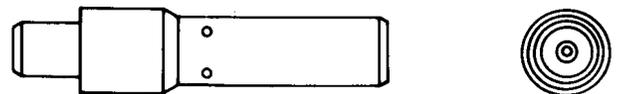


Fig. 14—514A Plug

(b) **514B:** The 514B plug (Fig. 15) is equipped with a plug locking shell. The 514B plug is used with the M13, M34, and T4M Multiplex System.

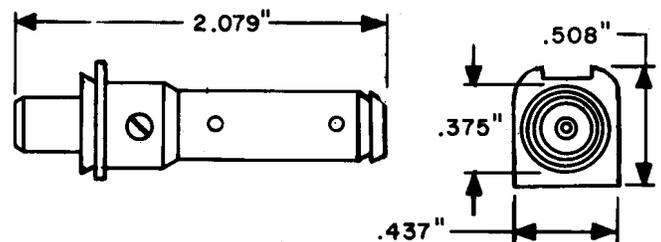


Fig. 15—514B Plug