

CODED JACKS—625 THROUGH 649

DESCRIPTION

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1. GENERAL

1.01 This section lists and illustrates coded jacks within the part or type number range of 625 through 649, used for the maintenance and operation of equipment in central offices.

1.02 The information provided in this section was previously shown in Section 032-511-101, Issue 3. In addition, the following jacks are added to this section:

- 627B
- 633E
- 634A
- 641A, B, C, D, and AW
- 642A and B
- 645-Type
- 647B and B4.

2. DESCRIPTION OF JACKS

2.01 **626E:** The 626E jack (Fig. 1) consists of a single-mounted telephone-type jack. This jack is used with the 347 plug and has a machine formed frame. The jack is designed to mount by means of a nut on a threaded sleeve. The nut and washer are shipped loose. The 626E jack is initially used with an emergency alarm circuit.

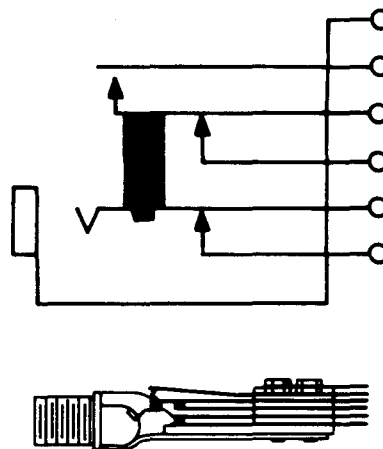


Fig. 1—626E Jack

2.02 **627A and B:** The 627A and B are triple coaxial-type jacks (Fig. 2) consisting of three jacks mounted in a common case. The center contacts of the two through jacks are connected together electrically. When a plug is inserted in either jack, the electrical connection is broken and a through connection is provided for that jack. The remaining jack is terminated to ground through a 75-ohm resistor. When a plug is inserted in both jacks, the electrical connection is broken and a through connection is provided in each jack. The third jack is for monitoring purposes. These jacks are designed to mate with the 440- and similar-type plugs (75 ohm, 0.29 inch outside diameter coaxial plugs). Two KS-15712, L2, shield connectors are shipped loose. The test voltage for the 627A and B jacks is 1000 volts ac.

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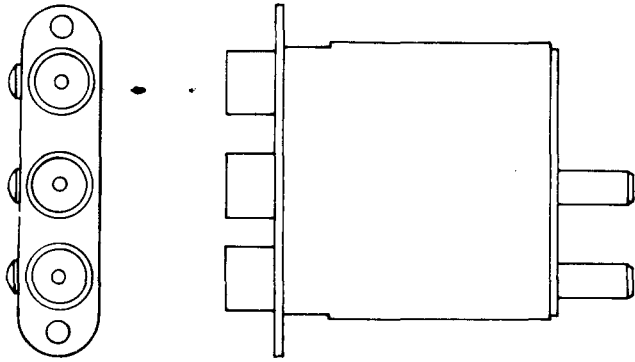


Fig. 2—627A or B Jack

(a) **627A:** The 627A jack is designed for a solderless termination to two 730A cables. The device connecting the center contact of the middle jack is a 2200-ohm resistor. This jack is used in the 400A Protection Switching System.

(b) **627B:** The 627B jack uses a 22-gauge wire strap. This jack is used in the mastergroup translator.

2.03 628A and B: The 628A and B jacks (Fig. 3) consist of two twin coaxial jacks mounted to a common base and designed for a solderless shield connection to a 760A cable. The center conductors of each twin jack are connected together internally to provide for monitoring. The test voltage for the 628A and B jacks is 2000 volts ac. The 628A jack mates with the 358- and other similar-type plugs. These jacks are used in A2A and A2AT Video Transmission Systems.

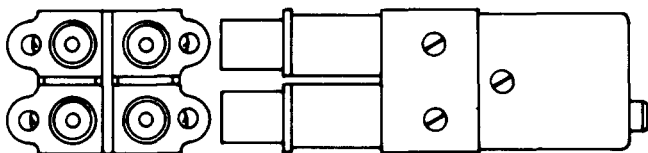


Fig. 3—628A or B Jack

(a) **628A:** The 628A jack uses a KS-15712, L22, shield connector.

(b) **628B:** The 628B jack uses a KS-15712, L6, shield connector.

2.04 631A: The 631A is a single-mounted, twin, reduced length jack (Fig. 4) having a single frame and is suitable to be used in equipment where space restrictions are a problem. This jack is designed to mate with the 310- and similar-type plugs. This jack is used in channel units.

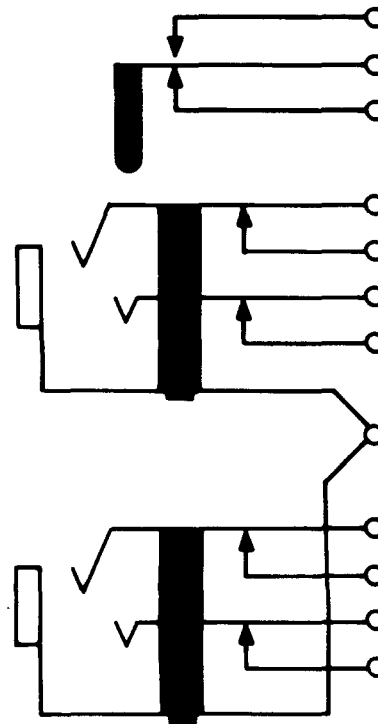


Fig. 4—631A Jack

2.05 632CM: The 632CM is a heavily insulated single-mounted jack (Fig. 5) having bifurcated "break" contacts and solderless wrap terminals. This jack is equipped with two additional terminals which have no connections to the spring or sleeve. This jack is designed to be used with the 310 plug. The 632CM jack is mounted with the springs in a vertical plane and is used in patch and cross connect bays.



Fig. 5—632CM Jack

2.06 633-Type: The 633-type jacks (Fig. 6) are terminating coaxial jacks used with the 440- or similar-type plugs. When a plug is inserted, the connection to ground is broken and a through connection is established. The jacks are designed for a solderless shield termination to the KS-19224, L2, cable. The test voltage is 1000 volts ac. These jacks are used with the T4M and M34 digital cable carrier lines. The 633-type jacks have a KS-15712, L38, shield connector that is shipped loose.

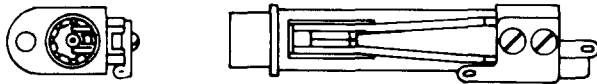


Fig. 6—633-Type Jack

(a) **633A:** The 633A jack contains a KS-16311, L1, 75-ohm resistor.

(b) **633B:** The 633B jack contains a shorting strap.

(c) **633E:** The 633E jack has “break” before “make” contact arrangements.

2.07 634A: The 634A is a terminating double coaxial jack (Fig. 7), intended to be used on the end of patch cords. This jack mates with a 358- or similar-type plugs. The jack is arranged for solderless shield connection to a 760A-type cable and a KS-15712, L22, outer sleeve that is shipped loose. The 634A jack is used on the TH Radio System test set equipment. The test voltage is 2000 volts ac.

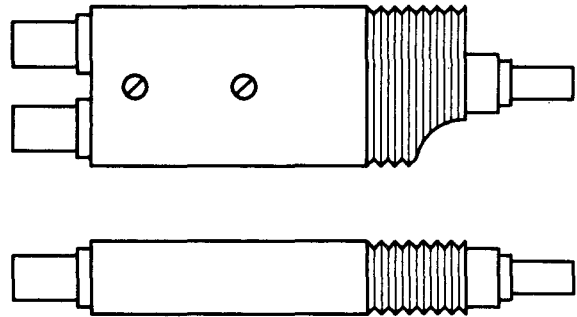


Fig. 7—634A Jack

2.08 636A: The 636A coaxial-type jack (Fig. 8) has a threaded body and is used with a 440-type plug on one end and to terminate the KS-19224, L2, cable using a solderless crimped sleeve on the other end. The insulated metal parts are capable of withstanding a 1500-volt ac breakdown test. The jack is provided with two hexagonal nuts for mounting and is used with the J68418A frequency modulation terminal transmitter.

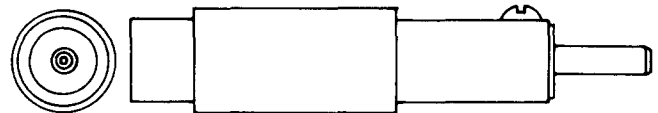


Fig. 8—636A Jack

2.09 637AM: The 637AM is a twin jack (Fig. 9) with a center mount frame and is used with the 338- or similar-type plugs. This jack is used with the T1C Carrier System.

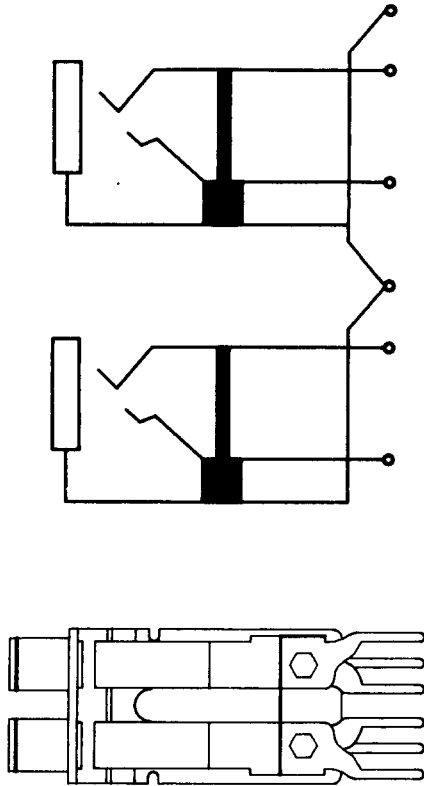


Fig. 9—637AM Jack

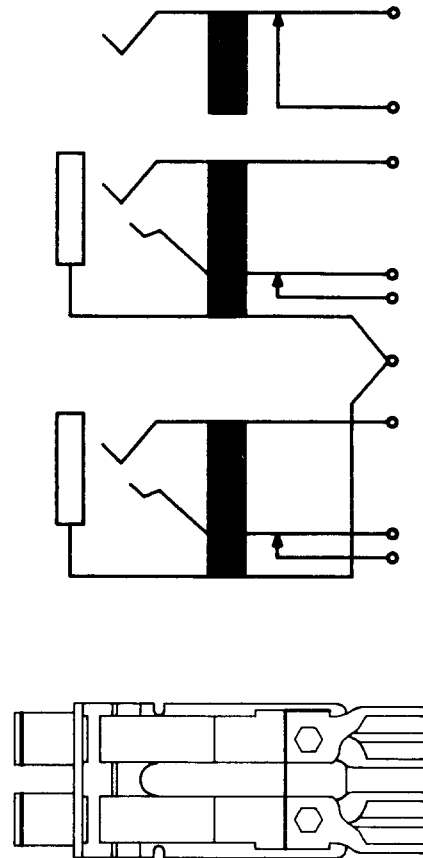


Fig. 10—638AM Jack

2.10 638AM: The 638AM (Fig. 10) is a single-mounted twin miniature jack and is used in equipment where space restrictions are a problem. This jack is designed to mate with the 310- and similar-type plugs and is used in the D3 channel bank units.

2.11 641A, B, C, D, and AW: The 641-type jacks (Fig. 11) have an 8-conductor spring block assembly used with modular telephone sets. The jacks consist of a gray thermoplastic base with spade-tipped leads and will accept a D8W plug.

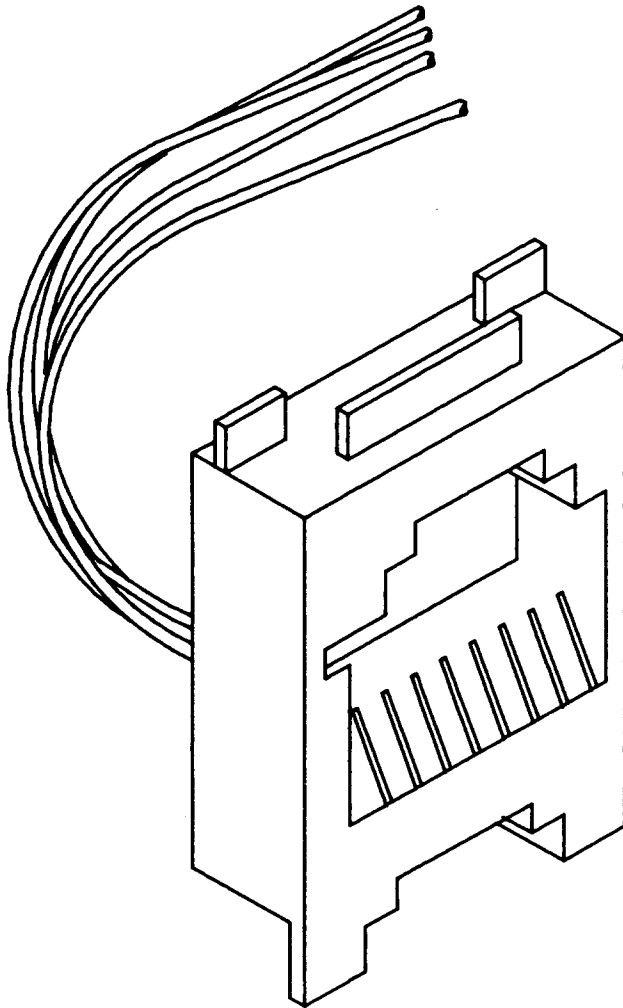


Fig. 11—641-Type Jack

- (a) **641A:** The 641A jack is equipped with eight stranded wire leads 5 inches long with one each of the following colors: blue, brown, green, orange, white-blue, white-brown, white-green, and white-orange.
- (b) **641A4:** The 641A4 jack is equipped with four stranded wire leads 5 inches long with one each of the following colors: brown, white-brown, green, and white-green.
- (c) **641A5:** The 641A5 jack is equipped with five stranded wire leads 5 inches long with one each of the following colors: green, white-green, white-orange, blue, and orange.
- (d) **641B:** The 641B jack is equipped with eight solid wire leads 4.5 inches long with one each

of the following colors: blue, brown, green, orange, white-blue, white-brown, white-green, and white-orange.

(e) **641C:** The 641C jack is equipped with eight stranded wire leads 6 inches long with one each of the following colors: blue, brown, green, orange, white-blue, white-brown, white-green, and white-orange.

(f) **641D:** The 641D jack is equipped with eight stranded wire leads 11 inches long with one each of the following colors: white-brown, green-white, orange-white, white-blue, blue-white, white-orange, white-green, and brown-white.

(g) **641AW:** The 641AW jack is equipped with eight stranded wire leads 5 inches long with one each of the following colors: blue, brown, green, orange, white-blue, white-brown, white-green, and white-orange.

2.12 642A and B: The 642A and B jacks (Fig. 12) each consist of a 6-conductor spring block assembly (gray) and an 8-conductor spring block assembly (ivory). The 642A and B jacks are intended to be snapped into separately supplied jacks or blocks and receive modular-type telephone jacks.

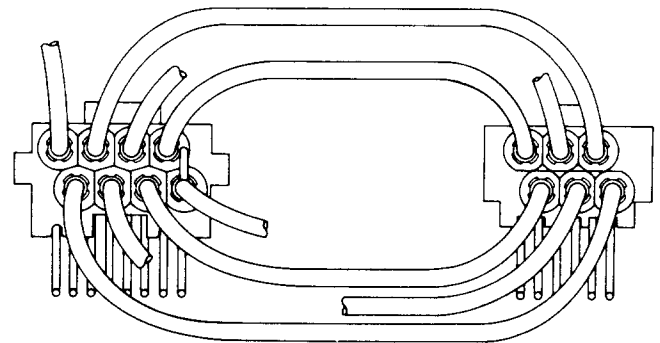


Fig. 12—642A or B Jack

(a) **642A:** The 642A jack consists of two spring block assemblies attached to each other by means of four common jumper leads. The jack is used on the 1200AT1 dial.

(b) **642B:** The 642B jack consists of two spring block assemblies attached to each other by means of two common leads 4.5 inches long. All other leads are 9.5 inches long. The 642B jack is used on the 10A speakerphone.

2.13 645-Type: The 645-type jacks (Fig. 13) have a 4-conductor spring block assembly for use with the modular telephone jacks and/or connector blocks. The 645-type jacks have tops with contact springs and leads which snap into separately supplied jacks or blocks. The mating bodies may be a part of telephone sets or connecting blocks and could be molded integrally with a base chassis housing, etc. The tops are designed to snap into place for easy assembly. The unique features of the various types are described as follows:

(a) **645A4:** The 645A4 jack is equipped with four leads (red, green, yellow, and black) 4.5 inches long and a spring assembly.

(b) **645A4B:** The 645A4B jack is equipped with four leads (red, green, yellow, and black) 2.2 inches long with spade tips. The jack is used on the 625F connecting block jack.

(c) **645A4P:** The 645A4P jack is equipped with four leads (red, green, yellow, and black) with push-on connectors per housing assembly. This jack is used as part of the 725P connecting block.

(d) **645A6:** The 645A6 jack is equipped with six leads (red, green, yellow, black, white, and blue) 4.5 inches long and a spring assembly.

(e) **645A6C:** The 645A6C jack is equipped with six leads (red, green, yellow, black, white, and blue) 9.2 inches long and a spring assembly. The 645A6C jack is used with the 652A6C jack.

(f) **645A6D:** The 645A6D jack is equipped with six leads (red, green, yellow, black, white, and blue) 16.0 inches long and a spring assembly. The 645A6D jack is used with the 652A6D jack.

(g) **645A6E:** The 645A6E jack is equipped with four leads (red, green, yellow, and black) 2.2

inches long and two leads (white and blue) 2.5 inches long. The 645A6E jack is used on the 625D6 connecting block.

(h) **645B2A:** The 645B2A jack is equipped with four leads (yellow in color) 4.5 inches long. This jack is designed with two contact springs. The 645B2A jack is used with the 248 adapter.

(i) **645B4:** The 645B4 jack is equipped with four leads (red, green, yellow, and black) 4.2 inches long and a spring assembly. The 645B4 jack is used with the 153A adapter and 652B4 jack.

(j) **645B4B:** The 645B4B jack is equipped with four leads (red, green, yellow, and black) 4.5 inches long with terminal pins and a spring assembly. The 645B4B jack is used with the 1A converter.

(k) **645B4C:** The 645B4C jack is equipped with four leads (red, green, yellow, and black) 4.5 inches long and a spring assembly. The 645B4C jack is used with 225A and AW adapters.

(l) **645B4P:** The 645B4P jack is equipped with four leads (red, green, yellow, and black) 4.2 inches long and a spring assembly. This jack is equipped with four solid leads with push-on connectors. The 645B4P is used with the 725T connecting block.

(m) **645B6:** The 645B6 jack is equipped with four leads (red, green, yellow, and black) 4.2 inches long and a spring assembly. The leads are solid wire. The 645B6 jack is used with the 153A adapter and 652B6 jack.

(n) **645C2D:** The 645C2D jack is equipped with two leads (one green and one red) 9.2 inches long. The jack is used with the 652C2D jack and is lavender in color.

(o) **645C4:** The 645C4 jack is equipped with four leads (red, green, yellow, and black) 7 inches long and a spring assembly which is colored violet to differentiate from other jacks. The jack is used with the 652C4 jack in the L1AM ringer.

(p) **645C4C:** The 645C4C jack is equipped with four leads which are equipped with ring tip terminals. The jack is used with the 652C4C jack.

(q) **645D2:** The 645D2 jack is equipped with two leads, (yellow and black). The 645D2 jack is used with the 281 adapter.

(r) **645D4:** The 645D4 jack is equipped with four leads (red, green, blue, and white) 4.5 inches long and a spring assembly. The leads are stranded 26-gauge wire, 0.031 inch in diameter, and 1.2 inches long. The 645D4 jack has no terminals on the end of the lead and is used with the 281-type adapter.

(s) **645E4:** The 645E4 jack is equipped with four leads (red, green, yellow, and black). Two of the leads extend from the upper and two from the lower part of the block assembly. This jack is used with the 652WP4 jack.

(t) **645H2:** The 645H2 jack is equipped with one green lead and one red lead with spade tips.

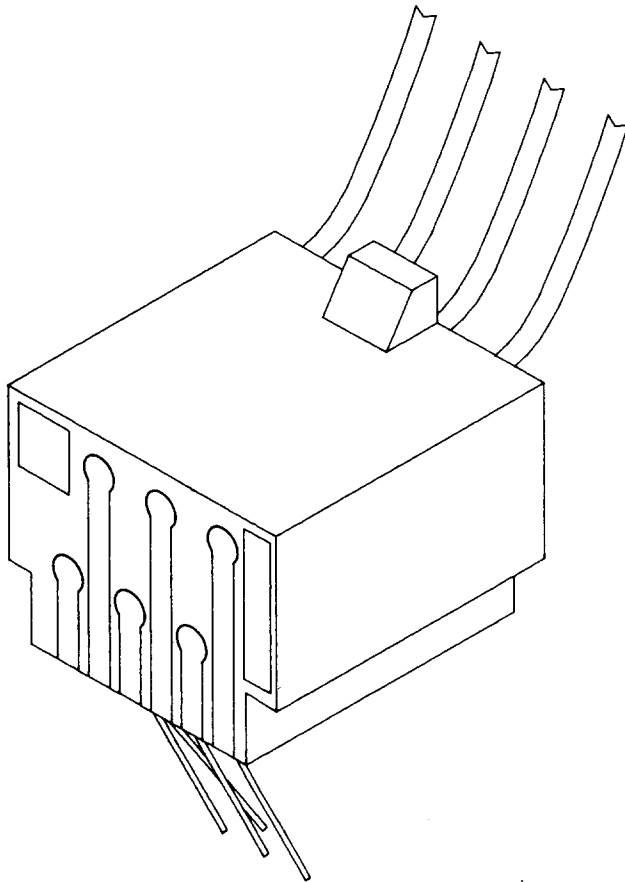


Fig. 13—645-Type Jack

2.14 647B and B4: The 647B and B4 jacks (Fig. 14) each have an 8-conductor spring block assembly used with modular data sets. The jacks contain a slot to permit entry of the keyed plug which is used exclusively by the registered data sets. These jacks will accept the D8W plug or the 4- by 6-modular plug.

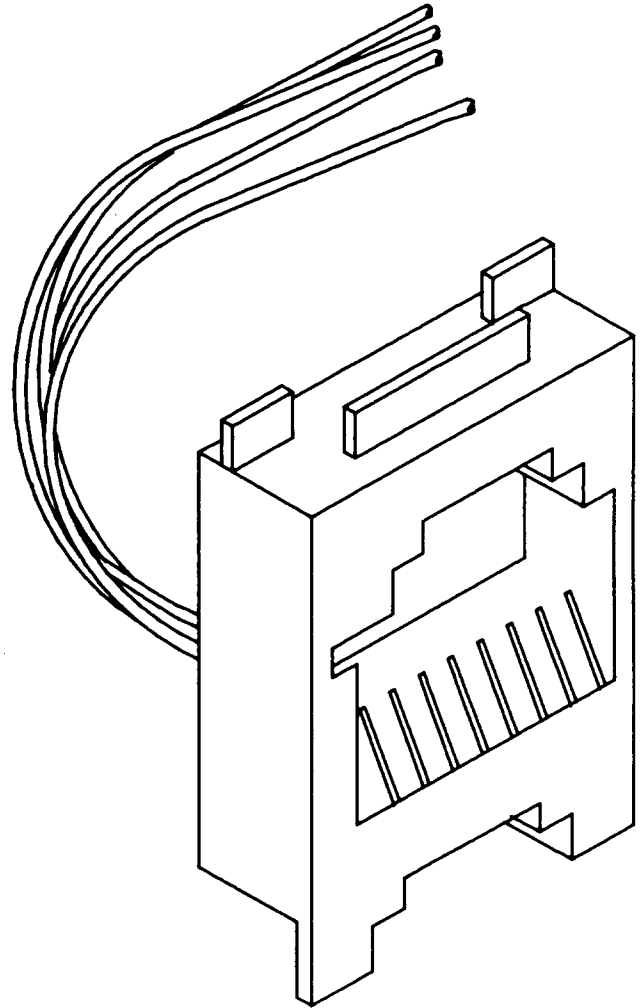


Fig. 14—647B or B4 Jack

(a) **647B:** The 647B jack is equipped with blue, orange, black, red, green, yellow, brown, and slate colored leads, and spring assemblies.

(b) **647B4:** The 647B4 jack is equipped with blue, orange, green, and red leads. The jack is used with the 330A adapter.