

UG-16 CABLE TERMINAL
DESCRIPTION AND INSTALLATION

CONTENTS	PAGE
1. GENERAL	1
2. DESCRIPTION	2
3. PLACING IN MANHOLES	3
4. INSTALLATION OF 200-TYPE CONNECTORS	3
INSTALLATION	4

1. GENERAL

1.01 This section covers the description and installation of the UG-16 cable terminal.

1.02 This section is reissued to update information on service wire connector combinations used with the UG-16 terminal. The B and C underground wire, UG wire, and U bridle wire are rated Mfr Disc. and are deleted from this issue. Revision arrows are used to denote the more significant changes.

1.03 The UG-16 cable terminal is a sealed distribution terminal installed in manholes or small handholes for subscriber connections.

1.04 Earlier models of the UG-16 cable terminal were manufactured with recesses in the outside of the cover. When mounted in a horizontal position, the recesses collect water which could drip into the terminal body when the cover is raised. A new cover (P-375292) listed in Table A is available as a replacement part.

TABLE A

PIECE PARTS—UG-16 CABLE TERMINAL

PART	NO.
Cover	P-375292
Eye Bolt	P-340293
Gasket, Rubber	P-375372
Nut, Wing	P-340294
Pin, Cotter, Steel, CR, 430 5/16-in. x 1-1/2-in.	—
Pin, Cotter, Steel, CR, 430 1/4-in. x 1-1/2-in.	—

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SECTION 631-650-200

2. DESCRIPTION

2.01 The UG-16 cable terminal (Fig. 1) is a watertight, 16-pair unprotected terminal consisting of a cast iron box with a hinged cover, and a lead sheath stub cable with a gas plug containing 16 pairs of color coded, 24-gauge, PVC-insulated, copper conductors. The cover contains a replaceable rubber gasket for making a watertight seal. The cover is sealed to the box by four steel bolts with wing nuts.

2.02 The dimensions of the UG-16 cable terminal are 12-1/4 inches long by 9 inches wide by 5-3/4 inches deep.

2.03 In each side of the terminal there are six tapped holes for the entrance of service connection wires. They are closed with brass plugs when the terminal is supplied. The brass plugs are replaced with 200-type connectors when the openings are used for wire entrances. The threads of the plugs are

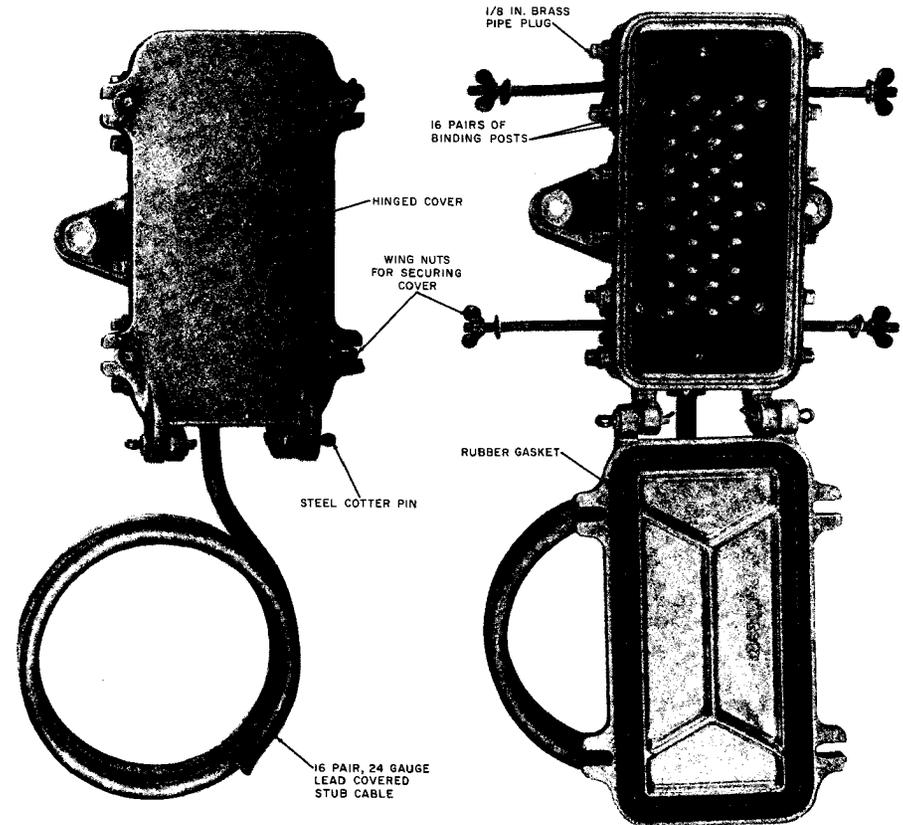


Fig. 1—UG-16 Cable Terminal

coated and sealed when the terminals are assembled. Part 4 covers the installation of the 200-type connectors.

2.04 The piece parts available for the UG-16 cable terminal are listed in Table A.

3. PLACING IN MANHOLES

3.01 The UG-16 cable terminals can be installed in a vertical or a horizontal position. They should be located so that neither the terminal nor associated cable will interfere with the proper installation of future cables.

3.02 Attach the UG-16 cable terminal to the mounting surface as follows:

- (a) Locate the terminal in the desired position and mark the location of the holes.
- (b) Remove the terminal and drill the holes for the anchoring devices.
- (c) Place the terminal and secure it with the anchoring devices as shown in Fig. 2.

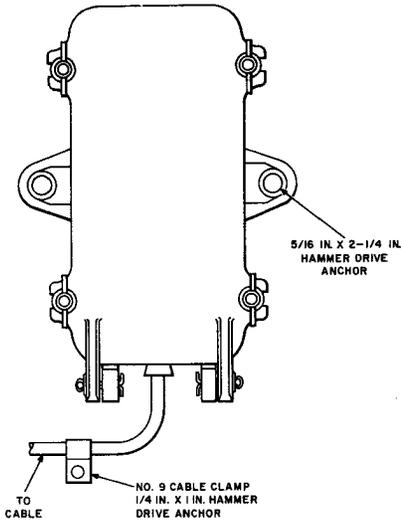


Fig. 2—Placing UG-16 Cable Terminal

(d) Attach stub cable with cable clamps as shown in Fig. 2.

4. INSTALLATION OF 200-TYPE CONNECTORS

4.01 The 200-type connectors are designed to provide watertight connections between UG-16 cable terminals and the various types of underground, buried, or service wires.

4.02 Table B lists the 200-type connectors available and the type service wire they are used with.

TABLE B†

200-TYPE CONNECTOR	
CONNECTOR	FACILITY USED WITH
200A	C Drop Wire 2 Pair) C Service Wire 5 Pair) C Service Wire
200D	E Buried Wire
200E	B Service Wire E Armored Service Wire

4.03 The 200-type connectors (Fig. 3 through 5) have bodies and packing nuts which are identical. The different types are determined by the bushing and the spacers used. These bushings and spacers can be ordered as piece parts, and any type can be converted to another type by inserting the proper spacers and bushings. Table C lists the parts for each type. Figure 6 shows the dimensions of the bushings and spacers.

INSTALLATION

4.04 Terminate wire at UG-16 cable terminals as follows:

- (a) Remove the brass pipe plug nearest the terminal binding posts on which the wire is to terminate. A snap-on PP412 tool, or equivalent, may be used to remove the plug.
- (b) In its place, insert the brass body of the 200-type connector with the threads coated with PIPETITE Stik* or other suitable compound. Tighten in place with a snap-on RX-32 tool, or equivalent.

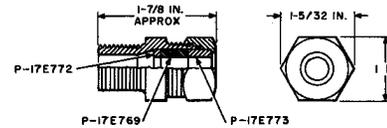


Fig. 3—200E Connector

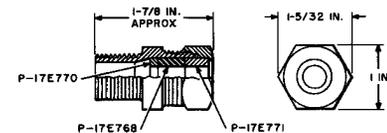


Fig. 4—200D Connector

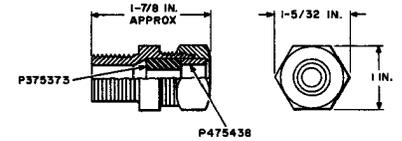
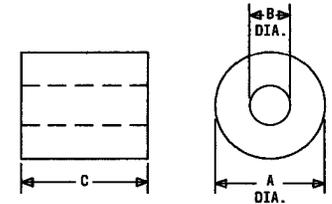


Fig. 5—200A Connector

TABLE C†

200-TYPE CONNECTORS
BUSHING AND SPACERS

CONNECTOR	BUSHING	SPACER	
		(OUTER)	(INNER)
200E	P-17E769	P-17E773	P-17E772
200D	P-17E768	P-17E771	P-17E770
200A	P-375373	P-475438	—



PART NO.	DIMENSIONS (IN.)			MATERIAL
	A	B	C	
P17E768	5/8	1/4 X 5/16 (OVAL)	5/8	RUBBER
P17E769	5/8	1/4	5/8	RUBBER
P17E770	11/16	5/16	1/8	METALLIC
P17E771	11/16	5/16	3/8	METALLIC
P17E772	11/16	1/4	1/8	METALLIC
P17E773	11/16	1/4	3/8	METALLIC
P375373	11/16	5/16	3/4	RUBBER
P475438	11/16	7/16	3/8	METALLIC

Fig. 6—Bushing and Spacer Dimensions†

* Registered trademark of Lake Chemical Co.

ISS 4, SECTION 631-650-200

(c) Prepare the end of wire being terminated for insertion through the connector, which includes removing the jacket and armor when required for proper fit (paragraph 4.02).

(d) Loosen and remove the packing nut and remove bushing and spacers from the connector. Place the packing nut, outer spacer, bushing, and inner spacer over the wire being terminated, and

insert wire into the connector with sufficient length of conductor exposed to reach the binding posts (Fig. 7).

(e) Insert inner spacer, bushing, and outer spacer into the body of the connector and tighten the packing nut securely so it forms a watertight seal around the wire.

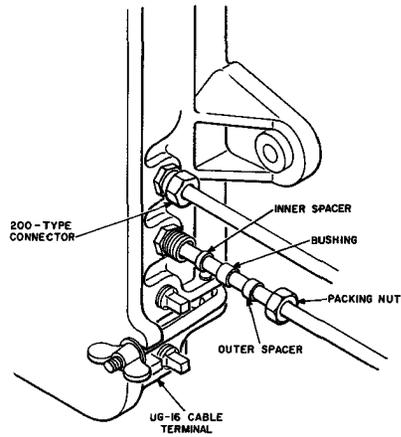


Fig. 7—Installing 200-Type Connectors