CONDENSERS

DESCRIPTION AND USE

1. GENERAL

1.01 This section gives general information pertaining to the principal condensers used in connection with station apparatus.

2. DESCRIPTION

2.01 Table I lists the principal condensers used in connection with station apparatus, shows their rated capacity in microfarads and indicates the code numbers of condensers that are equivalent and can generally be used interchangeably in station apparatus. Where it is necessary to show between which condenser terminals the capacities of multiple condensers are measured, reference is made to the figures that follow Table I.

TABLE I

Condenser Code No.	Capacity in M. F.	Equivalent* Condensers	Refer To
21-A	2.00	147-A	
21-B	2.00	147-A	
21-C	2.00	147-A	
21-D	2.00	21-E, L and 147-A	
21-E	2.00	See 21-D	
21-F	1.00	149-A	
21-K	1.00	149-A	
21-L	2.00	See 21-D	
21-M	1.00	149-A	
21-N	.50 1.00	147-D	Fig. 1 (A) (B)

TABLE I—Cont.

Condenser Code No.	Capacity in M. F.	Equivalent* Condensers	Refer To
21-R	.10	149-C	
21-W	.80	—	
21-AC	.50	149-B	
21-AD	1.00 1.00	147-C	Fig. 2 (A) (B)
21-AM	1.06	—	
21-AN	1.00	149-A	
21-AP	1.00	149-A	
21-AS	.50	149-B	
21-BF	.644	149-D	
21-BG	1.00 1.00	147-B	Fig. 3 (A) (B)
21-BW	1.00	149-A	
147-A	2.00	—	
147-B	1.00 1.00	1147-B	Fig. 4 (A) (B)
147-C	1.00 1.00	—	Fig. 5 (A) (B)
147-D	1.00 .50	—	Fig. 5 (A) (B)
149-A	1.00	1149-A	
149-B	.50	1149-B	
149-C	.10	—	
149-D	.65	—	
152-A	.085	61-A Filter	Fig. 6
194-A	1.00 2.00	—	Fig. 7 (A) (B)
194-B	.50 2.00	—	Fig. 7 (A) (B)
199-A	.65 2.00	—	Fig. 8 (A) (B)
1021-BW	1.00	21-BW, 149-A and 1149-A	
1147-B	1.00 1.00	147-B	Fig. 9 (A) (B)
1149-A	1.00	149-A	
1149-B	.50	149-B	

* If a 147 or 1147 type condenser must fill the same space as a 21 type condenser an adapter P-409555 will be required. If a 149 or 1149 type condenser must fill the same space as a 21 type condenser an adapter P-409556 will be required.

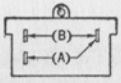

Fig. 1

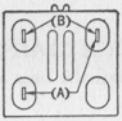

Fig. 2

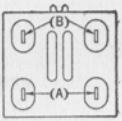

Fig. 3

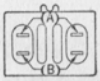

Fig. 4

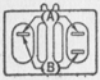

Fig. 5

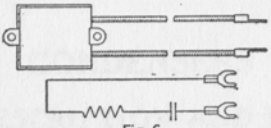
Fig. 6

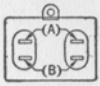

Fig. 7

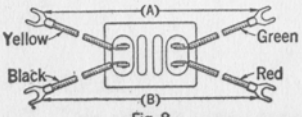

Fig. 8

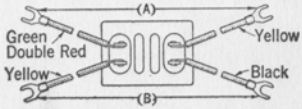

Fig. 9

Note: In the above figures some of the condenser mounting tabs are shown bent at an angle of 90 degrees so as to definitely identify the position of the condensers illustrated in the figures.

3. USE

3.01 The various sections in the C series that describe station apparatus mention the code numbers of the condensers used in new station apparatus. Reference should be made to these sections for information covering the use of new condensers.

3.02 Repaired condensers will be found in certain station apparatus. These condensers are of two grades, A and B. Grade A condensers meet the requirements for new condensers and are reissued as such without any distinguishing marks. Grade B condensers do not meet the requirements for new condensers but are satisfactory for use in certain station apparatus. For example, a No. 21-D condenser which measures 1 m.f. or more, but less than 2 m.f. in capacity, can be used in a subscriber set where a 2 m.f. condenser was previously used but a 1 m.f. condenser is satisfactory. The covers of such sets are stamped 2 m.f. and they should be considered as 2 m.f. sets even though the condenser in the set is marked 1 m.f. or 1.75 m.f. This is to avoid the use of condensers having capacities greater than 1 m.f. each at certain telephone stations. See the sections in Subdivision C46 covering line and ringer connections for further information regarding this requirement. Grade B condensers can be identified by a yellow stripe about 3/8″ wide and 3/4″ long which is painted on the condenser near the left hand terminal.