

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G34.101.5
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B RURAL WIRE

LOADING COILS

INSTALLATION

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1. GENERAL

1.01 This section describes methods of installing loading coil cases and loading coils for use with B Rural Wire. This information was formerly contained in Section G31.112.3 which is cancelled.

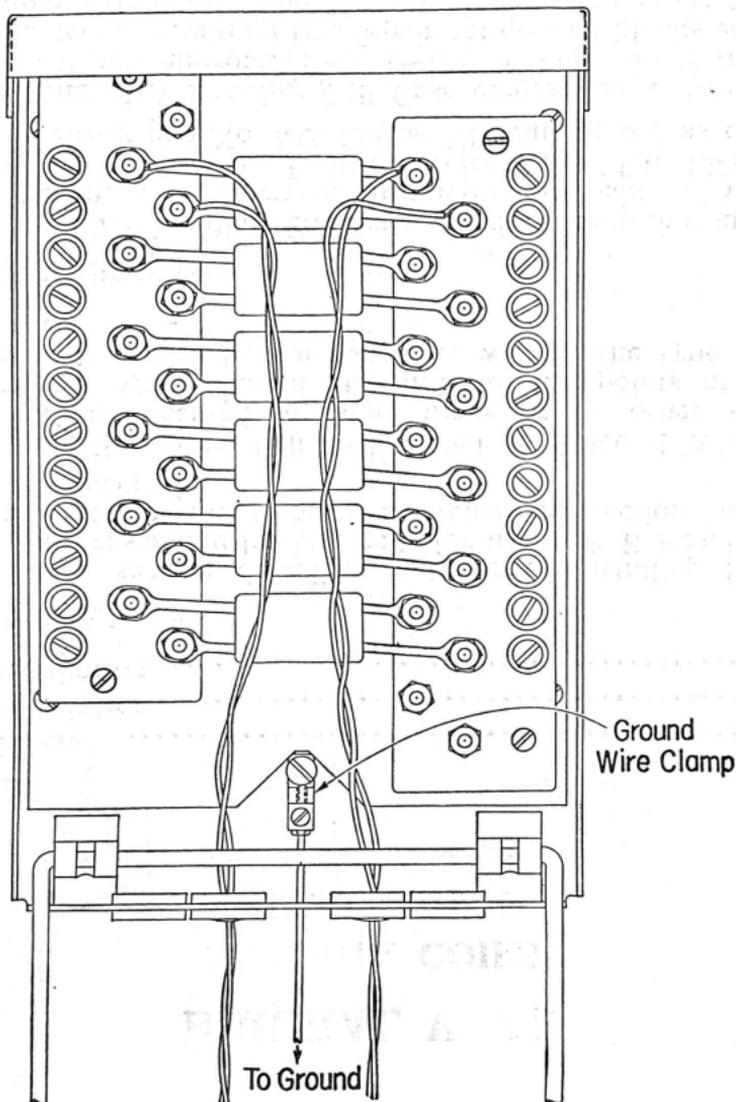
1.02 Loading coils shall be installed on B Rural Wire only when specified in detail plans or by other specific instructions, which should also indicate the points at which loading coils are to be connected as well as the type of coil to be used.

2. DESCRIPTION

2.01 A 177A Loading Coil Case provides mounting arrangements and electrical protection for six 137A Cases suitable for loading six B Rural Wire pairs. The 137A Case contains either one No. 632, 638 or 639 loading coil as ordered.

2.02 The 177A Loading Coil Case consists of a sheet metal housing approximately 11-1/4 in. high, 6-7/8 in. wide, and 4 in. deep, containing two 6-pair connecting blocks equipped with 107B Protectors. The B Rural Wire pairs enter through grommets in the bottom of the case. The six pairs from one direction are terminated on the right-hand protector block and the six pairs from the other direction are terminated on the left-hand block. The flat punched brass leads from the loading coil in the 137A Case serve as mechanical supports as

well as electrical connections for the coils. The interior wiring arrangement of a 177A Loading Coil Case is shown in the following sketch:



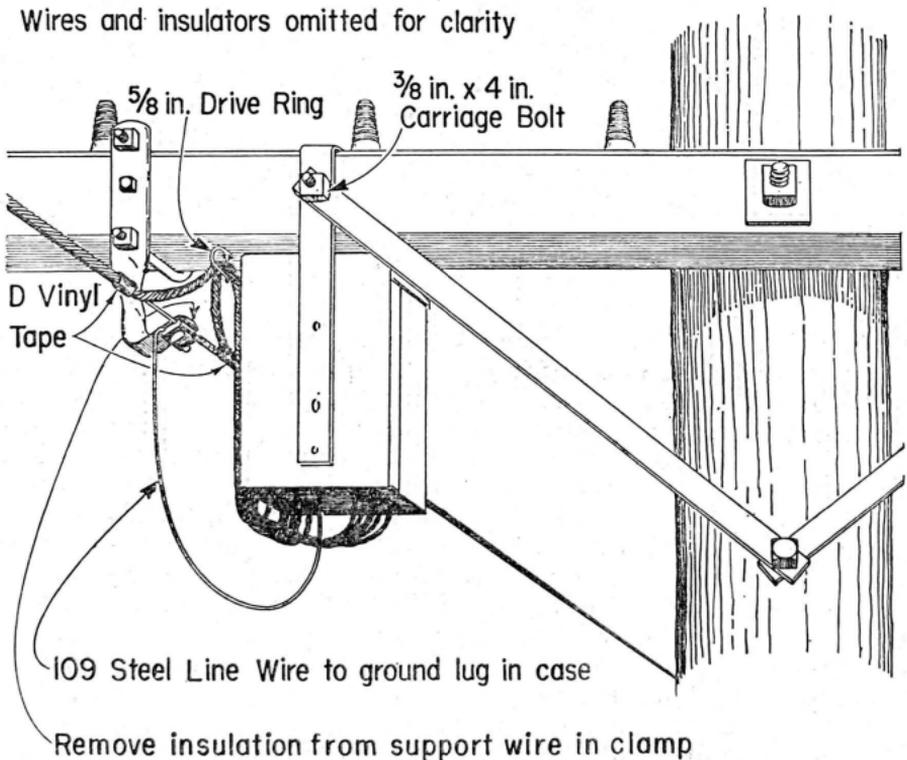
177A LOADING COIL CASE EQUIPPED WITH
137A CASES

2.03 A mounting bracket, permitting either pole or crossarm mounting, is furnished as a part of each loading coil case.

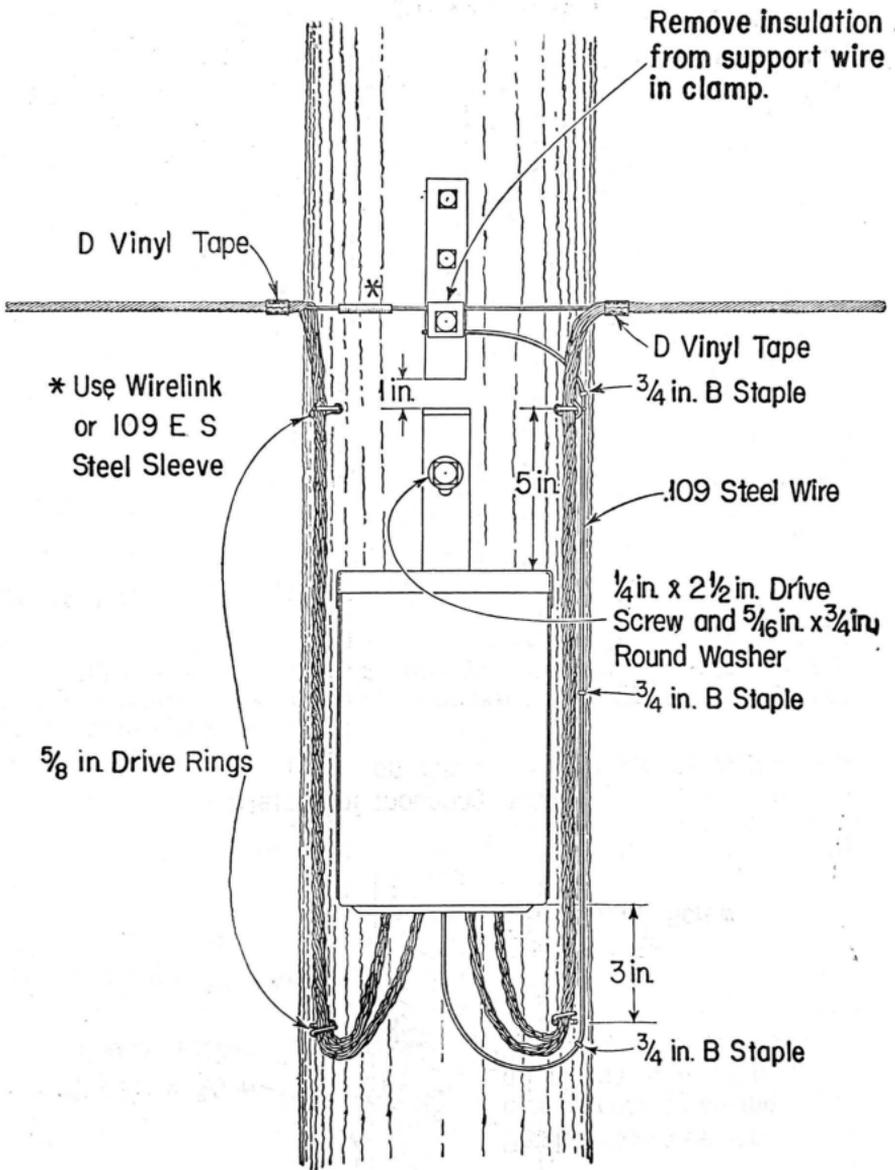
3. INSTALLATION

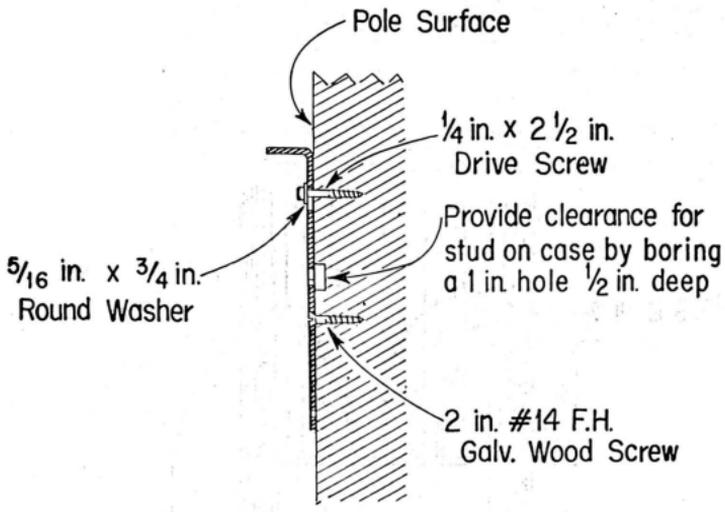
3.01 The 137A Cases should be mounted in the 177A Loading Coil Case before the case is carried up the pole for installation. The coil lead should be placed between the bottom washer and the shoulder of the binding post. This may be done by removing both nuts and all washers from each binding post. Place one washer and nut over the loading coil lead and tighten with a 216B Tool. Then replace remaining washers and nut.

3.02 The following sketch illustrates a loading coil case installed on a crossarm. The ground wire from the case should be clamped in the lower groove of the clamp of the C Wire Bracket. Also remove the insulation from the support wire where it clamps in the C Wire Bracket.



3.03 The following sketch illustrates a loading coil case installed on a pole. When making this type of installation, the mounting bracket must first be removed from the case, by removing the locking screw which also holds the ground wire clamp. Remove the case from the bracket by sliding it upward to disengage the stud from the keyhole slot in the bracket, then lift it away from the bracket. Mount the bracket loosely with a 1/4 in. by 2-1/2 in. screw and a 5/16 in. by 3/4 in. round washer, as indicated in the sketch. Locate and bore a 1 in. hole, about 1/2 in. deep, behind the keyhole slot in the mounting bracket, to provide clearance for the stud on the back of the case. Secure the bracket by tightening the drive screw and placing a 2 in. No. 14 flat head galvanized wood screw in the countersunk hole in the bracket. Mount the case on the bracket and secure it with the locking screw.





Details of mounting bracket on pole