

## HANDLING WIRE AND CABLE

### 1. GENERAL

**1.01** This section covers the general factors to be considered when handling wire and cable.

**1.02** This section is reissued to show additional information. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

### 2. REMOVING WIRE OR CABLE FROM A COIL

**2.01** To dispense jacketed wire from the carton:

- (1) Punch out perforated hole from carton.
- (2) Place carton on floor and feed wire from center of coil (Fig. 1).

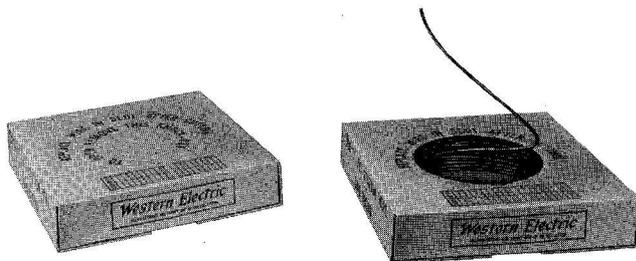


Fig. 1 — Dispensing Jacketed Wire

**2.02** To dispense twisted wire from a coil:

- (1) Place coil flat on floor so that inner end will feed from coil in a counterclockwise direction.
- (2) Feed from center of coil (Fig. 2).

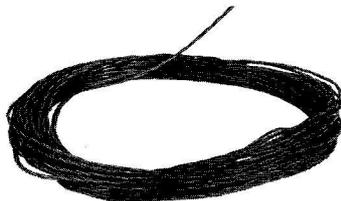


Fig. 2 — Dispensing Twisted Wire

**2.03** To pay out cable, remove cable from coil by paying it off from outside of coil (Fig. 3).

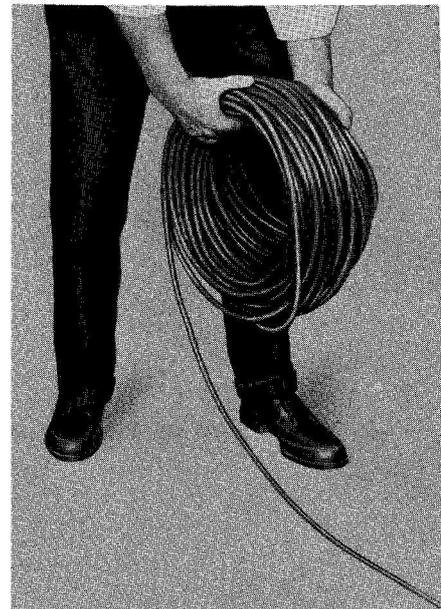


Fig. 3 — Paying Out Cable

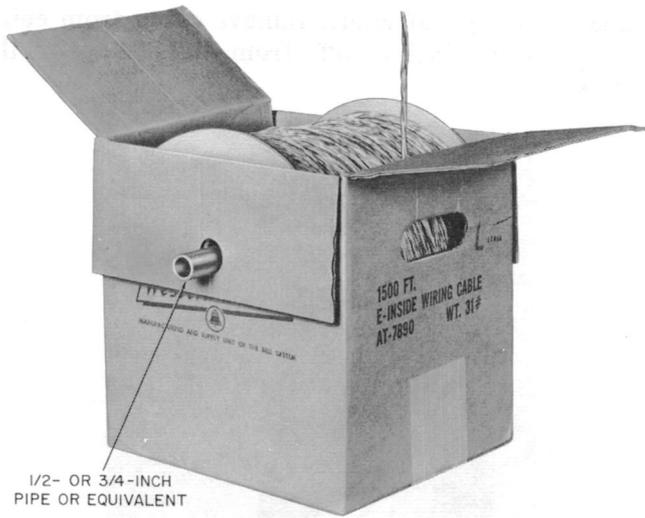


*Exercise care to protect wire and cable from injury. When transporting in vehicles, see that wire and cable are not subjected to damage by tools or other equipment.*

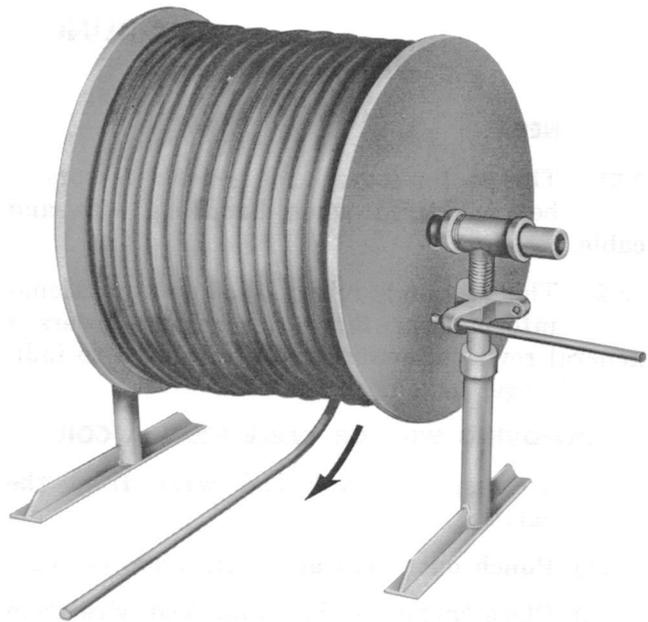
### 3. DISPENSING WIRE OR CABLE FROM REELS

**3.01** To dispense E wire from a small reel, open top of carton and fold sides down to match holes in side of carton; then insert pipe or equivalent implement through holes in carton and hole in reel, using the carton as reel support (Fig. 4).

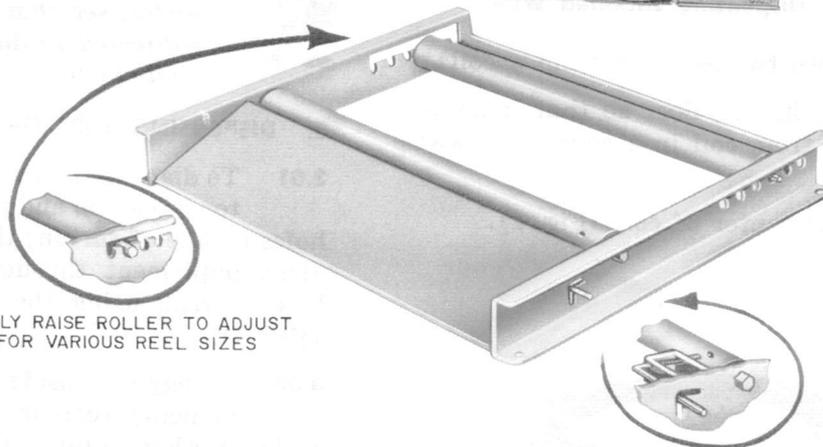
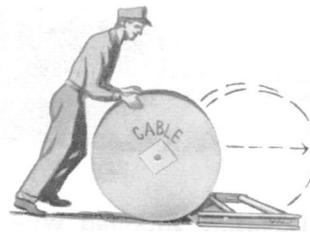
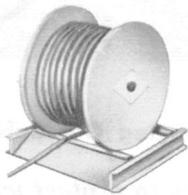
**3.02** To pay out inside wiring cable from large or heavy reels it is necessary to use cable jacks or other suitable means for handling reels. Fig. 5 and 6 show two general methods. Note that the cable is payed out from the bottom; this puts a downward force on the reel instead of an outward one.



**Fig. 4 — Carton Used as Reel Support**



**Fig. 5 — Reel Supported with Jacks**



SIMPLY RAISE ROLLER TO ADJUST FOR VARIOUS REEL SIZES

SIMPLE, POSITIVE ROLLER LOCK MAKES REEL REMOVAL EASY

**Fig. 6 — Reel Supported on Roller**

#### 4. STRIPPING CABLE

**4.01** To strip plastic-covered inside wiring cable with jacket-splitting nylon cord:

- (1) Slit end of cable sheath with diagonal pliers for approximately 1 inch.
- (2) Locate jacket-splitting nylon cord under jacket.
- (3) Grasp cable firmly in one hand and, using long-nose pliers, pull nylon cord through cable jacket to the desired stripped length (Fig. 7).

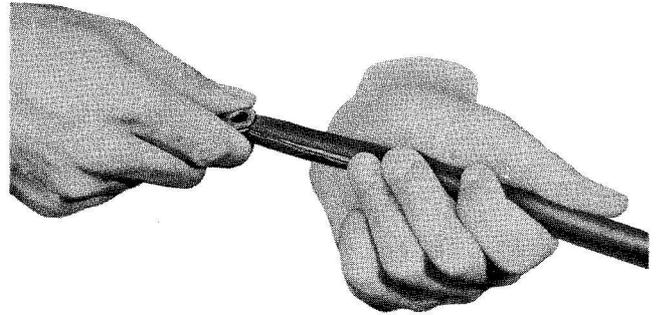


**Fig. 7 — Stripping IW Cable (with Jacket-Splitting Cord)**

**4.02** To strip braid or older plastic-covered inside wiring cable without jacket-splitting nylon cord:

- (1) Support cable between stripper and last attachment.

- (2) Hold cable stripper tool at angle to cable and insert point just under outer covering.
- (3) Pull stripper toward free end of cable (Fig. 8).



**Fig. 8 — Using Cable Stripper**

**4.03** To strip lead-covered cable:

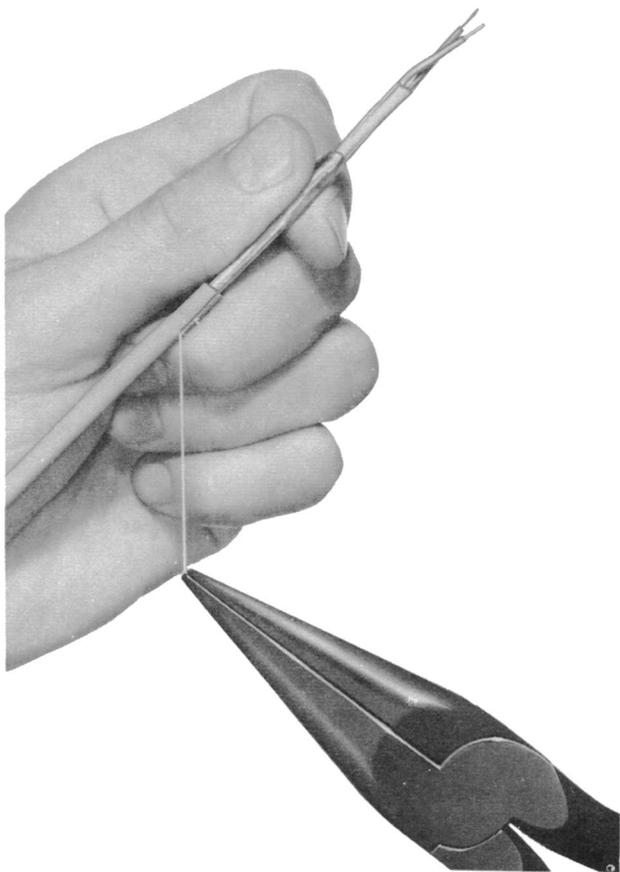
- (1) Score a groove around cable at butt marks with a chipping knife.
- (2) Cut deep enough so sheath will break when bent.
- (3) Slide section of sheath off free end of cable.
- (4) When a long section of sheathing is to be removed, score in short (approximately 4-inch) lengths and remove each separately.

#### 5. STRIPPING JACKETED WIRE

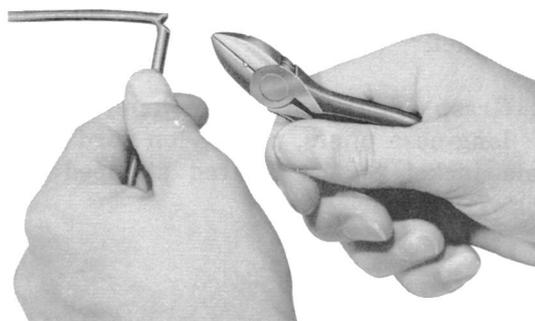
**5.01** To strip SK station wire:

- (1) Slit end of jacket with diagonal pliers for approximately 1 inch.
- (2) Locate jacket-splitting nylon cord under jacket.
- (3) Grasp wire firmly in one hand and, using long-nose pliers, pull nylon cord through jacket to the desired stripped length (Fig. 9).

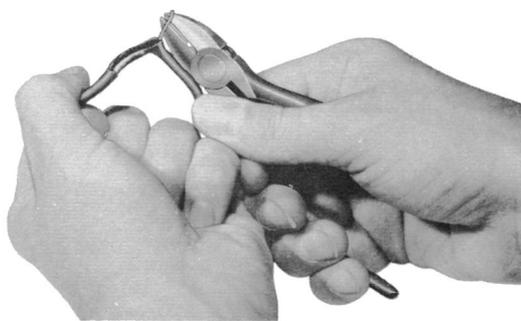
**5.02** Stripping JKT station wire (Fig. 10).



**Fig. 9 — Stripping SK Wire**



**Fig. 10 — Stripping Jacketed Wire**



6. SKINNING CONDUCTORS (Fig. 11, 12, and 13)

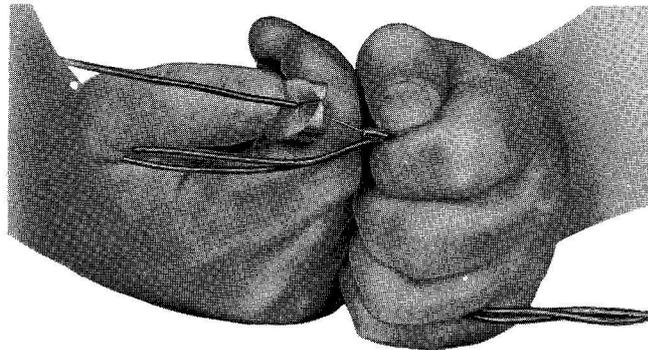


Fig. 11 — Skinning Twisted Wire

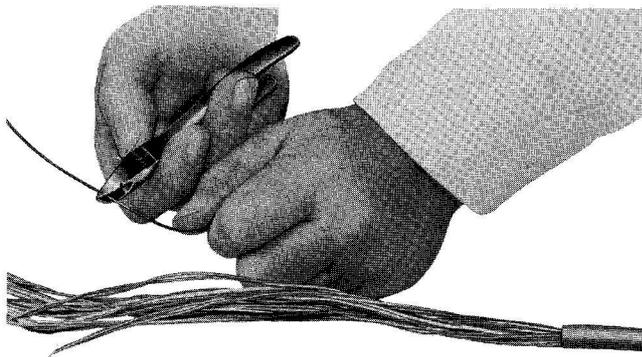


Fig. 12 — Skinning Conductors of Inside Wiring Cable

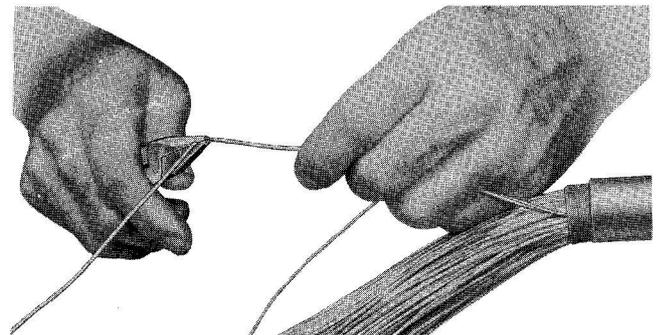


Fig. 13 — Skinning Conductors of Lead-Covered Cable