

# DE601-006, DE601-006B CONNECTOR KIT INSTRUCTIONS

## APPLICATION

The DE601-006 and DE601-006B Connector Kits are designed for use with the DE601-104, -104G, -112B and -112E Scanner Mounting Bases to allow for quick and easy connection and removal of the scanner cable.

## MATERIALS REQUIRED

The scanner is connected to the controller using a 16 gauge 5 conductor cable. Fireye Hypalon cable (P/N 500287-001) is rated at 600 volts, with the insulation rated at 194°F (90°C). Five 1/2 inch (13mm) long pieces of 1/8 inch (3mm) heat shrink tubing are used to protect the five soldered connections. The tools needed include a screwdriver, wire stripper, 3140 RTV (or equivalent) silicon sealant, heat gun, soldering iron and rosin core electrical solder. A small bench vise will aid in assembly.

## WIRING CONNECTIONS

FIGURE 1. Cable Preparation

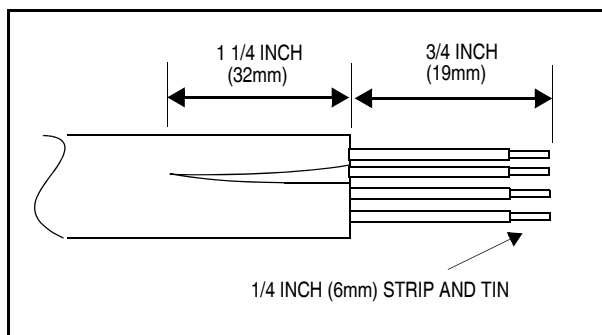
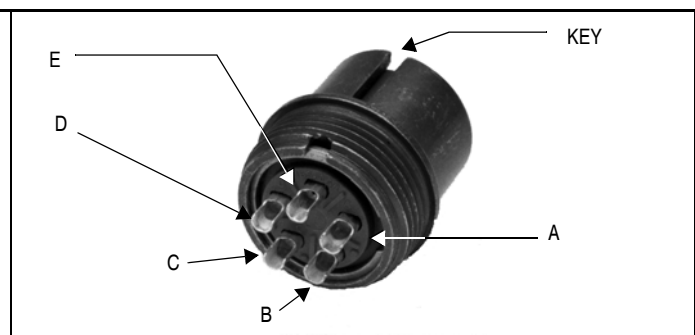


FIGURE 2. Pin Locations



1. Prepare the cable as illustrated in Figure 1. Remove 3/4 inch (19mm) of the outer jacket, then make a cut in the jacket an additional 1 1/4 inch (31.8mm) long. Strip the conductor insulation 1/4 inch (6mm).
2. Tin the ends of the five conductors.
3. For kit P/N **DE601-006**, refer to Figure 3. Slide the clamp, shell, ring and rubber boot onto the cable.
4. For kit P/N **DE601-006B**, refer to Figure 4. Slide the conduit adapter (discarding the "shell" piece), ring, and 2" shrink tube onto the cable.
5. Slide the five short pieces of shrink tubing onto the leadwires.
6. Use a small vise to hold the connector during soldering.
7. Referring to figure 2, solder the leadwires to the appropriate pins
8. Use an ohmmeter to test for cable continuity and pin isolation.
9. Slide the small tubing over the individual solder connections and shrink with a heat gun.
10. Apply 3140 RTV silicon sealant to completely cover the connector pins. Allow the sealant to cure for at least 12 hours.

11. For kit P/N **DE601-006**, refer to Figure 3. Slide the rubber boot down to the connector. Slide the ring onto the connector. Thread the shell onto the connector, and the clamp onto the shell. Tighten the clamp screws.

12. For kit P/N **DE601-006B**, refer to figure 4. Slide the 2" tubing down to the connector and shrink with a heat gun. Slide the ring onto the connector. Thread the conduit adapter onto the connector.

**TABLE 1. Current Hypalon Cable color code (Also applies to older PCV cable)**

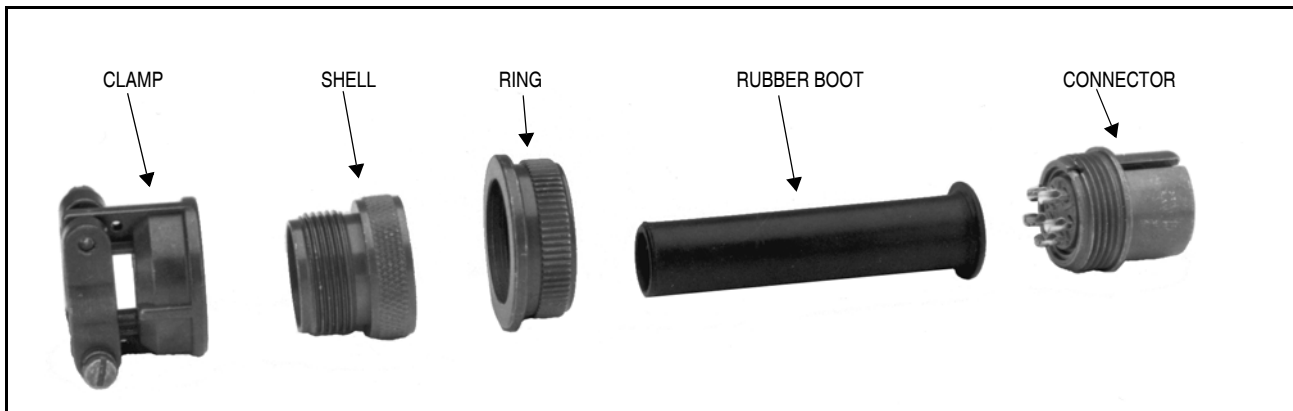
PIN	CABLE COLOR	FUNCTION
A	Orange	+28 vdc
B	Blue	Signal
C	Yellow	Chopper
D	Red	+520 vdc or 16 vdc (1)
E	Black	Ground

**TABLE 2. Early Hypalon Cable color code**

PIN	CABLE COLOR	FUNCTION
A	Orange	+28 vdc
B	Green	Signal
C	White	Chopper
D	Red	+520 vdc or 16 vdc(1)
E	Black	Ground

Note 1: The voltage on Pin D is determined by the controller type.

**FIGURE 3. DE601-006**



**FIGURE 4. DE601-006B**

