

**C99-20LL
System Cable
P/N 40935G-06**

INSTALLATION SHEET

The C99-20LL Interface cable connects a Universal Gateway Wireless System with the David Clark Series 9500 Marine Intercom System, and allows the installer to trim the length of the cable as needed. The installer must also attach the mating connector (P/N 09059P-48). This sheet provides instructions for the proper installation of this connector.

<p>The 40935G-06 Connector Contains the following items:</p>	<p>You will need the following parts/tools to complete the installation:</p>
<ol style="list-style-type: none"> 1. AMP 3-640442-8 (09059P-48) 2. Clear Shrink Tubing (09823P-0400000) 3. Tubing, HS 3/8 I.D. BLK (09823P-07HA000) 4. Cable Assembly (40828G-42) 	<ul style="list-style-type: none"> • Wire Cutters • Wire Strippers • Soldering Iron & Solder • Tape Measure • Optional Kit (40688G-91)

Table 1: Connector & Tools Required

Procedure

- § Determine a location for the Universal Gateway. Choose location based on the customer's requirements and maneuverability.
- § Determine the path of the cable between the Universal Gateway and the U9500 Master Station. The cable should be routed using under-deck conduits and be as far as possible from radio antenna coax cable and anywhere water may collect.
- § Route the cable. Start at the Universal Gateway location and feed the end with 2-1/2 inches of insulation removed toward the U9500 Master Station. The end with the Conxall connector will connect to the Universal Gateway. Use grommets each time the cable is passed through a wall or surface. Use wire ties where necessary.
- § Insert the cable into position J3 on the U9500 Master Station. The wiring scheme is at the U9500 end of the cable.

- § Pull cable through fitting approximately 2-3 inches to allow room for termination.
- § Using the provided cable labels, label the cable once it is through the fitting and inside the U9500 Master Station.
- § Prepare 6 conductor cable with connector (P/N 40828G-42).
 - a. Strip cord jacket 2-1/2 inches. Cut down red/white shield to 3/16 inch.
 - b. Twist and tin red/white shield 1/8 inch and solder splice to 2-1/2 inches blue wire cover shield and apply a 1/2 inch piece of clear shrink tube (09823P-0200000) and shrink it securely in place.
 - c. Cut all other shields flush to cord jacket.



Fig. 1

AMP Insertion Tools 59803-1

The tool number is stamped on the tool side and the AMP marking is molded on both sides. Insertion tool 59803-1 is designed for connectors with contacts on 0.100-inch centers (MTA 100).

Insertion Procedures

1. Place the connector block on a flat surface or suitable support to prevent possible rocking when inserting the wire.
2. Position wire over the contact in the MTA connector. Make sure the end of the wire does not extend over the shoulder of the connector. Start the wire into contact finger.
3. Place appropriate tool on wire over contact so that the centerline of the tool matches the contact. The tool must be positioned as shown in Figure below.
4. Holding the tool handle perpendicular to the contact, apply a constant, direct pressure until the wire is terminated with the contact. Exert pressure in such a manner as to avoid contact damage. See Fig. 2.
5. Remove tool and inspect contact for proper wire insertion. If necessary, repeat the operation.

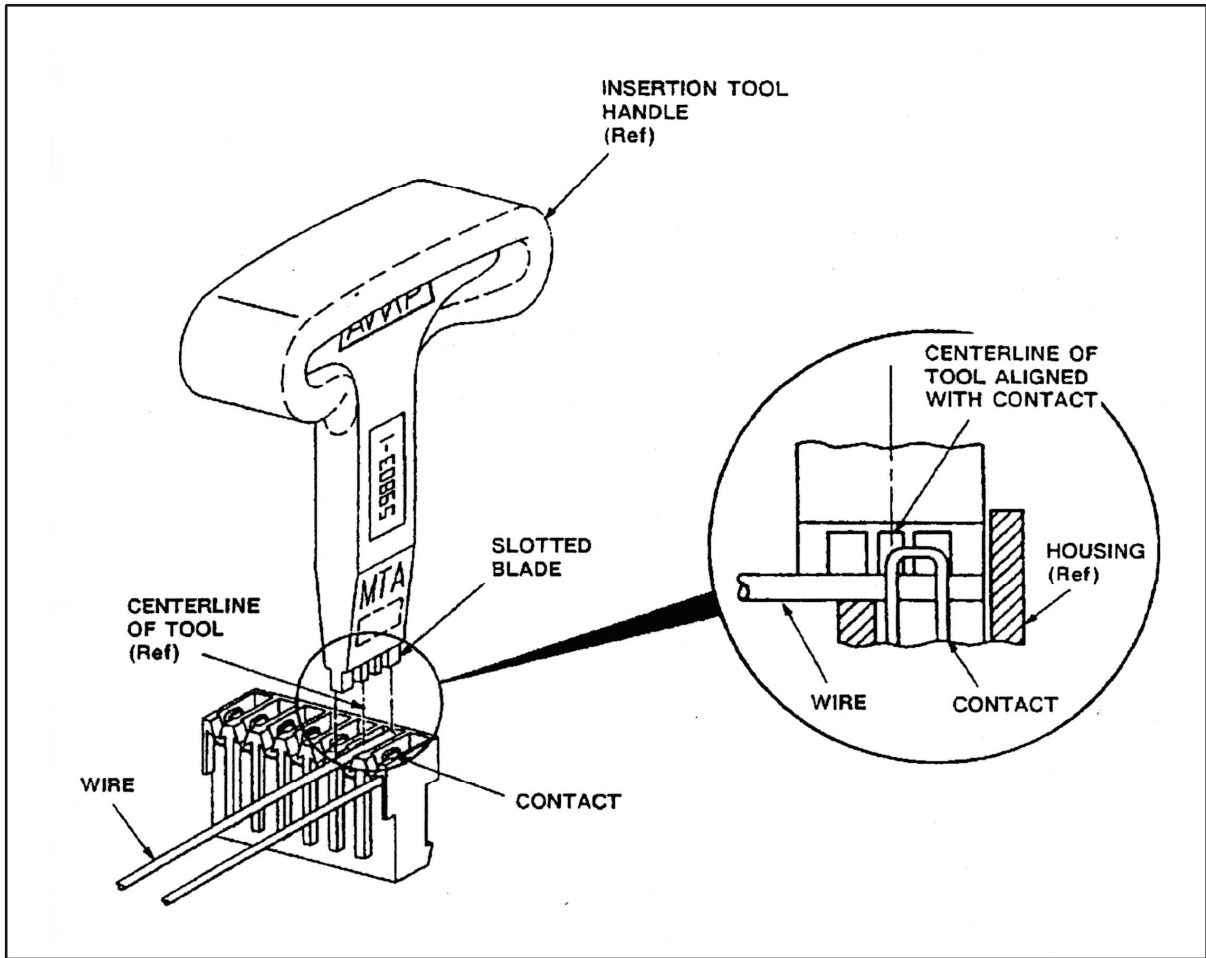


Fig. 2: Insertion Tool

Cable Type	Connector(s) on Master Station	Connector Type	Correct AMP Tool	Connector Wiring Diagram
System Cables	Main Board: J3	Blue Connector	59803-1	

Fig. 3

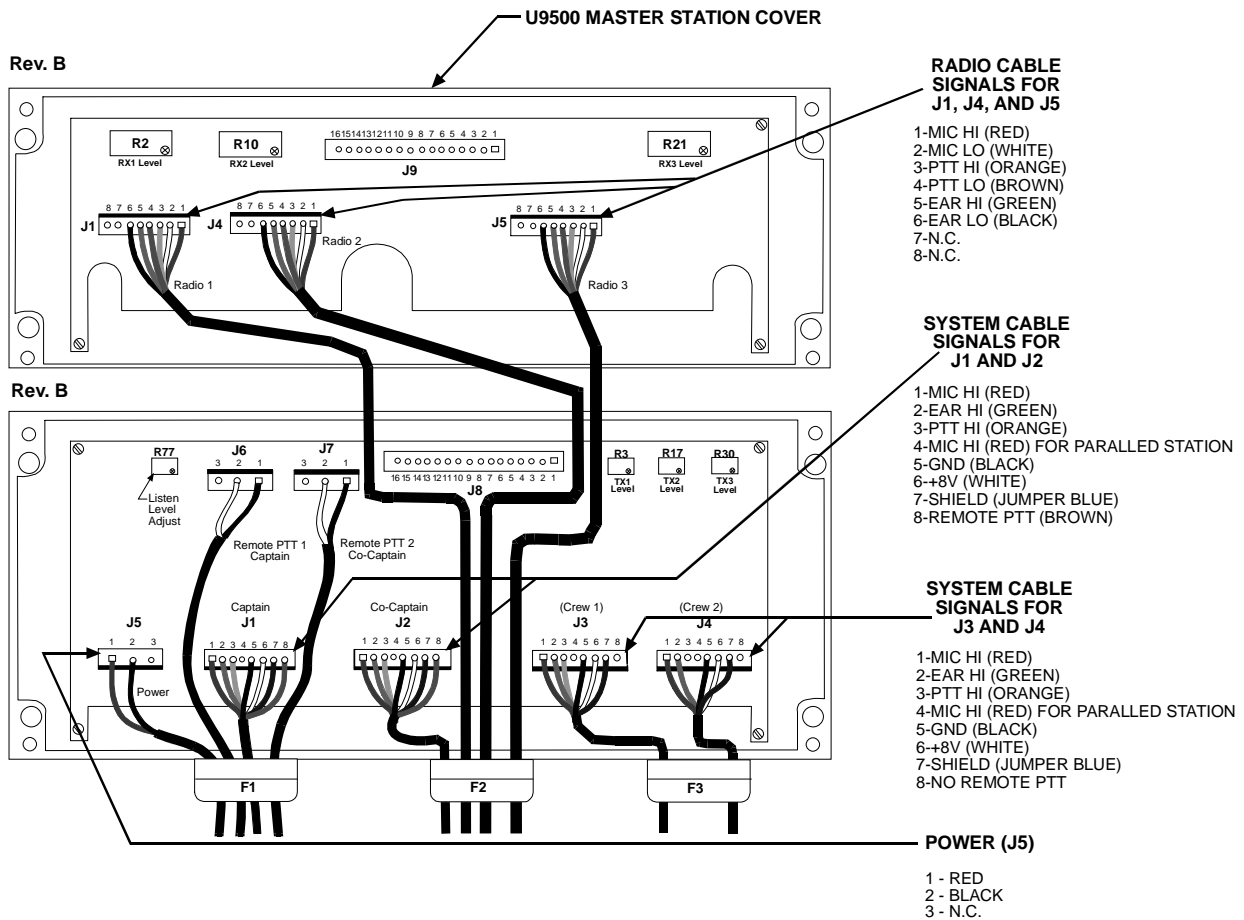


Fig. 4: Master Station Connections

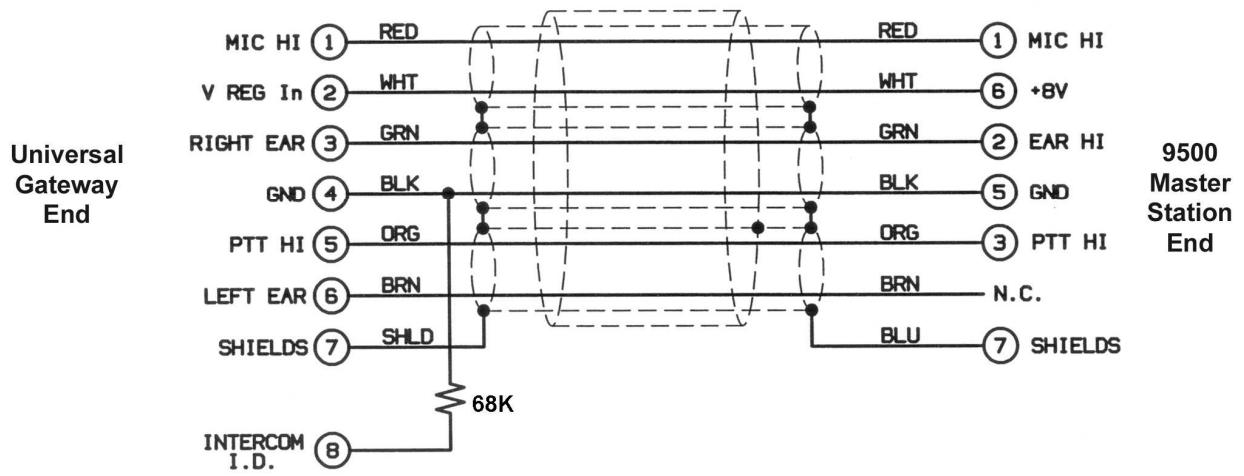
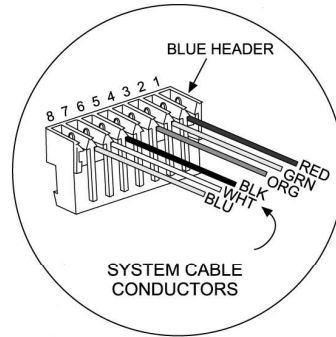
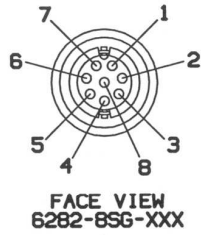


Fig. 5: Cable Schematic (40935G-06)