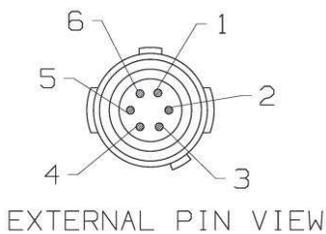**C91-20RD RADIO CABLE**
**P/N 40892G-19**

The C91-20RD Radio Cables are used to interface a marine or mobile radio to the 9100 Digital Intercom System.  One end of the cable connects to the Master Station and the other end connects to the radio.  Since the interface is different for each type of radio, the C91-20RD is left un-prepared at the radio end so that the installer may choose the correct interface. Alternatively, the C91-20RD cable can be used as a remote PTT cable with a U9111 Headset Station.  In this case, the un-prepared end is connected to up to two remote PTT switches.

## Parts/Tools Required

- ❑ C91-20RD Radio Cable (One for each radio to be interfaced)
- ❑ A U9104 or U9102 radio card installed  in the Master Station
- ❑ Mating connector and pin information for radio interface (installer provided)
    - o Wire Crimping/Cutting/Soldering/etc. tools (depends on radio interface)
- ❑ Wire ties

## Procedure

- ❑ Determine the path of the cable between each radio and the Master Station.  The radios should already be installed and tested.

- ❑ Route the cable.  The cable should be routed using conduits and be as far as possible from radio antenna coax cables and anywhere water may collect. The connector end connects to the Master Station.  Leave enough excess cable at the radio end for preparation of radio interface.

- ❑ Connect the cable to one of the radio card inputs on the Master Station; Align red keyways and push. Pull back gently on the connector to ensure it is properly locked.

- ❑ Prepare the radio interface in accordance with manufacturer's instructions.
  See **Table Below** for C91-20RD Radio Cable wire color functions. The end of this cable is stripped and tinned at the factory. Due to the difficulty in soldering to these conductors, it is recommended that any extra cable be coiled up rather than cut.

- ❑ If using as a remote PTT cable, connect the unprepared end to one or two switches to be used for Remote PTT. See **Table Below** for wire color functions.

- ❑ Repeat this procedure for additional radios



EXTERNAL PIN VIEW

| Pin | Color | Function |
|---|---|---|
| **Radio Functions** | | |
| 1 | Red | Mic Hi (+) |
| 2 | White | Mic Lo (-) |
| 3 | Green | Ear Hi (+) |
| 4 | Black | Ear Lo (-) |
| 5 | Yellow | PTT Hi (+) |
| 6 | Blue | PTT Lo (-) |
| Shell | Shield | Shield (To PTT Lo or Mic Lo) |
| **Remote PTT Functions** | | |
| 2 | White | PTT Lo #1 |
| 4 | Black | PTT Lo #2 |
| 5 | Yellow | PTT Hi #1 |
| 6 | Blue | PTT Hi #2 |