

**C91-20PW
POWER CABLE
P/N 40892G-20
INSTALLATION SHEET**

The C91-20PW is a 20-foot cable used to provide power to the U9100 Digital Intercom System. It has a connector on one end and the other end requires the installer to prepare. It is important to choose a power “pick-off” point which can provide 10 amperes of current at a voltage between 11-30VDC. Direct connection to a 10-Amp fuse/circuit-breaker is preferred.

Parts/Tools Required

- C91-20PW Power Cable (40892G-20)
 - Includes David Clark 10-Amp Fuse kit (41090G-22)
- Power pick-off point (circuit breaker/Fuse box, 11-30VDC)
- Soldering iron/Solder
- Wire terminals
- Wire cutters/ Wire strippers
- Tape Measure
- Wire ties

Procedure

- Determine the location of a 10-Amp circuit breaker to be used and how to connect to it (solder, screw terminals, lugs, etc).
- If only a higher-amperage circuit breaker is available, it may be used, but the David Clark 10-Amp Fuse Kit must also be used.
- Determine the location of the 11-30VDC and Ground pick-off points.
- Determine the path of the cable between the power source and the Master Station. The cable should be routed using under-deck conduits and be as far as possible from radio antenna coax cables and anywhere water may collect.
- Measure the length of cable necessary, adding 3 ft as a service loop.
- If necessary, trim the length of the cable to the length you just determined in the previous step. Be sure to trim the UN-PREPARED end of the cable.
- Route the cable. Use wire ties where necessary.

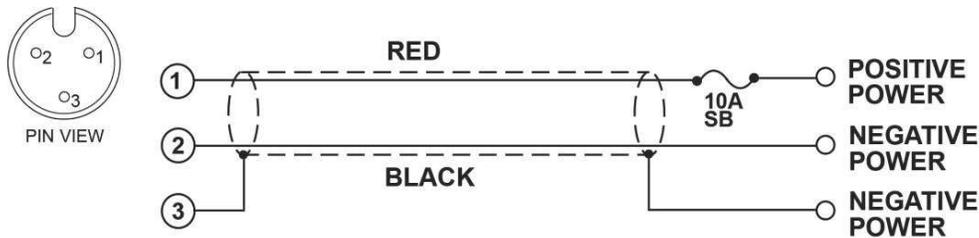


Figure 1: C91-20PW Power Cord Schematic Diagram

- ❑ Connect the cable to the jack on the Master Station, see **Figure 3**. To connect the cable to the Master Station, align keyways and push. Then firmly turn collar clockwise until it locks into place. Pull back gently on the cable to ensure connector is properly locked.

Before continuing, ensure that power is shut off to the point where you are going to connect the power cable!

- ❑ Using the wire cutters and wire strippers, prepare the end of the cable as necessary for your installation (**Figure 2**).
- ❑ If using the David Clark 10-Amp Fuse Kit, please see **Page 3** for assembly instructions.
- ❑ Connect the cable to the power source
 - Connect the RED to the positive (+) terminal.
 - Connect the BLACK and SHIELD to the negative (-) terminal.

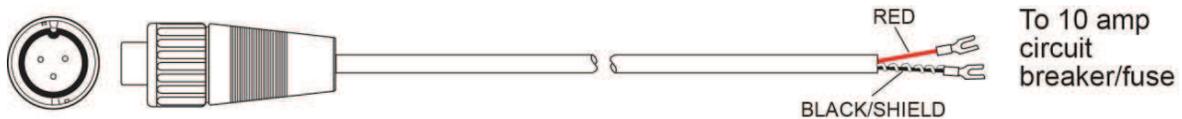


Figure 2: C91-20PW Power Cable

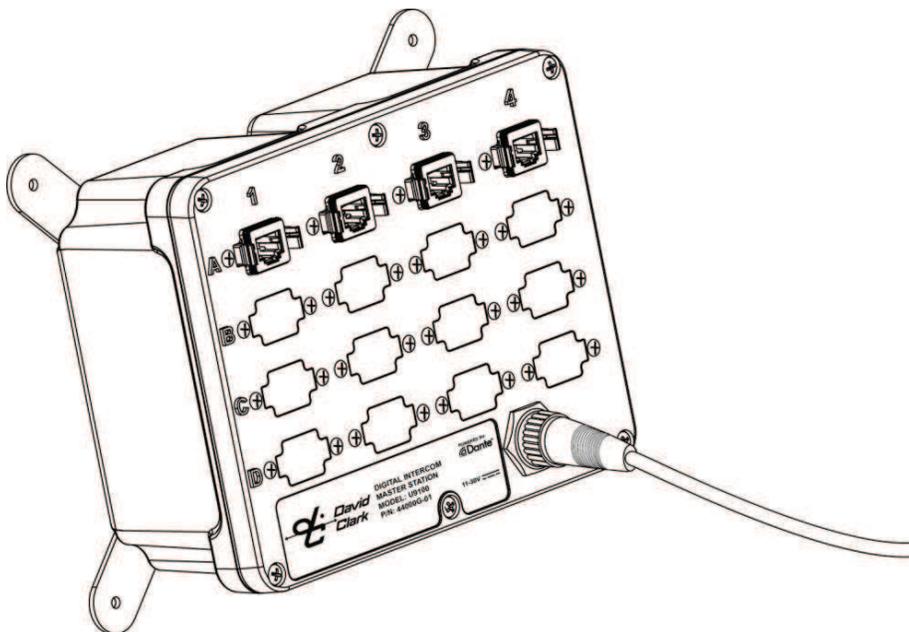


Figure 3: Master Station Power Cable Connection

**INSTALLATION INSTRUCTIONS
C91-20PW POWER CORD
WATERPROOF IN-LINE FUSE HOLDER
AND 10 AMP SLOW BLOW FUSE
P/N 41090G-22**

DESCRIPTION

- One piece molded thermoplastic
- Temperature range -20°C to +70°C
- Weather resistant
- Vibration and shock resistant
- Withstands harsh environments (water, salt spray, ultraviolet light, ozone, organic solvents)

INSTALLATION

1. Using a heat gun, install 1/8" diameter heat shrink tubing* over one end of the 4" red wire (supplied). Install the second piece of 1/8" diameter heat shrink tubing over the red wire on the cable.
2. Thread red wire of power cord with heat shrink tubing* into one end of fuse holder P/N 09487P-09.
3. Thread the heat shrink end of the 4 inch red wire supplied with fuse holder into other end of fuse holder.
4. Strip insulation on both wires 1/4 inch.
5. Crimp fuse clips to both wires.
(Recommended crimp tool Radio Shack No. 64-409 or equivalent)
6. Insert 10-amp fuse.
7. Snap two halves of housing together.

* Note: The heat shrink tubing is necessary in order to provide weather tightness.

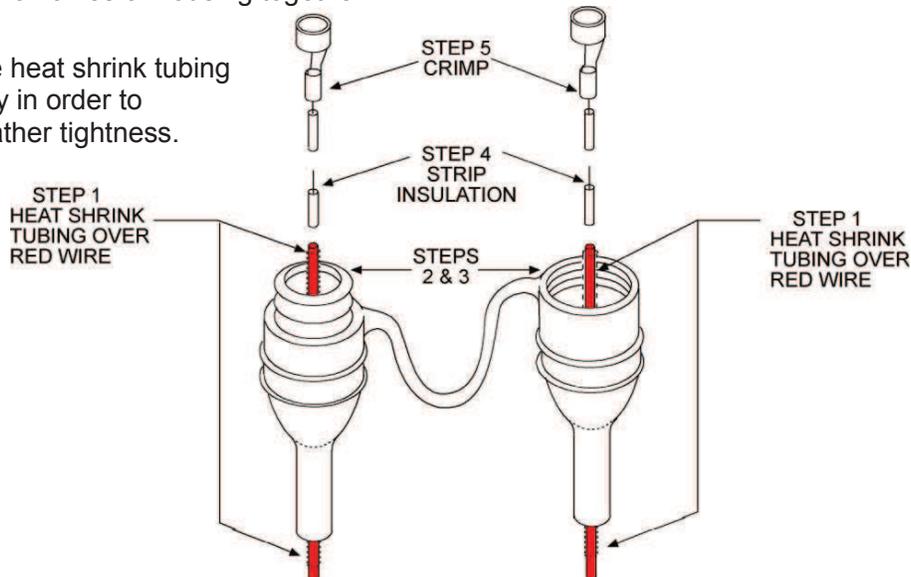


Figure 4: Fuse Holder Assembly