Installing the Desktop Power Supply Kit

The Extron External Power Supply kits can be used as additional power supplies or to replacements. Each desktop kit consists of a power supply and a detached IEC power cord. Each power supply includes a permanently attached 6-foot output power cord. Two of the kits are preterminated with plug connectors. The remaining kits can be terminated with a captive screw connector or screwlocked into a direct-insertion captive screw connector. Unterminated power supplies have approximately 3/16" (5 mm) of their output power cords exposed.

Determining polarity

When you are connecting the power supply output cord, voltage polarity is extremely important.

CAUTION *Applying power with incorrect voltage polarity can damage the power supply and the device to which it is connected.*

The polarity of the unterminated power supply's output wires is identified by the following marks (figure 1), the power cord negative (–) lead is identified by ridged surfaces on the side of the cord.

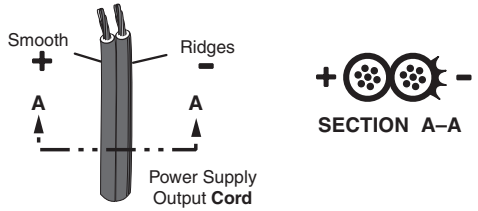

Figure 1 — Power supply output cables polarity

To verify the polarity before connection, plug in the power supply with no load and check the output with a voltmeter. Remove power before continuing.

WARNING *The two power cord wires must be kept separated while power is on.*

- The correct polarity for the powered device is normally silk-screened near the connection points on the rear of the device.
- The polarity of the preterminated power supply output is indicated on the product label, as shown at right.

Connecting unterminated power supplies

The power supply ships with approximately 3/16" (5 mm) of each output power cord wire exposed. If necessary, remove the original power cord from the powered device. Leave the wires untinned. Insert the proper polarity (+ and –) ends of the wires into the appropriate holes on the captive screw or direct insertion connector (figure 2). Tighten the captive screws.

For the orange 2-pole captive screw connector, use the supplied tie-wrap to strap the power cord to the extended tail of the connector, as shown in figure 2.

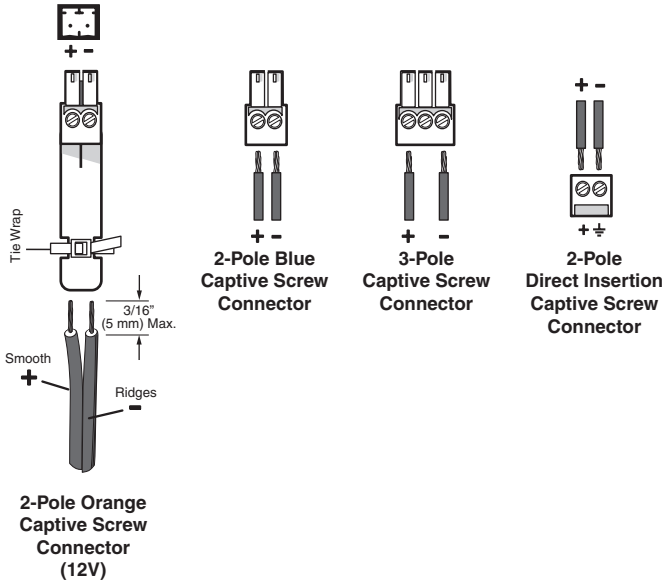

Figure 2 — Typical power connections

CAUTION *The length of the exposed (stripped) copper wires is important. The ideal length is 3/16" (5 mm). Longer bare wires can short together. Shorter wires are not as secure in the direct insertion connectors and could be pulled out.*

NOTE *Your powered device may have shipped with a blue captive screw connector. This blue connector can be plugged into either a blue or an orange power receptacle on the powered device.*

NOTE *Do not tin the power supply leads before installing the wires in the connector. Tinned wires are not as secure in the captive screw connectors and could pull out.*

Power up

When the installation or replacement is complete, power up the device as follows:

1. Reassemble the device to be powered as necessary.
2. **For desktop models**, connect the IEC AC power cord to the power supply.
3. Plug the AC plug into a wall outlet. Check the powered device for proper operation.

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