Field Wiring for Connecting DC Mains

Only trained service personnel are authorized to install and remove the ±12 - ±72 volt DC Mains, and make the connections to and disconnections from the ±12 - ±72 volt DC Mains. The customer is responsible for ensuring that only trained service personnel install or remove the ±12 - ±72 volt power cable.

See the IPC documentation for detailed instructions for installing DC Power supplies in the IPC.

Safety Statement

Power supplies to the IPC must be with the same power rating or wattage to ensure that the IPC will operate correctly.

Caution

To reduce the risk of electric shock or energy hazards:

- It is the customer's responsibility to supply the necessary power cable.
- Use a circuit breaker that is rated at 20 amps.
• Use 0.75 mm² (18 AWG) single copper wire, or 0.75 mm² (18 AWG) multi-core copper at min. 90° C.

• Strip the wire, and leave the bare lead approximately 10 mm for terminals connection.

• Torque the wiring-terminal screws to 0.60 newton-meters (5 inch-pounds).

• Wire strip length is 4-5 mm.

• For supply connections, use wires suitable for at least 90 °C.

• If the power source requires ring terminals, you must use a crimping tool to install the ring terminals to the power cord wires. The ring terminals must be UL approved and must accommodate the wire that is described in above.

This equipment is designed to permit the connection of the earthed conductor of the DC supply circuit to the earthed conductor at the equipment. If this connection is made, all of the following conditions must be met:

• This equipment shall be connected directly to the DC supply system earthed electrode conductor or to a bonding jumper from an earthing terminal bar or bus to which the DC supply system earthed electrode conductor is connected.

• This equipment shall be located in the same immediate area (such as, adjacent cabinets) as any other equipment that has a connection between the earthed conductor of the same DC supply circuit and the earthed conductor, and also the point of earthed of the DC system. The DC system shall not be earthed elsewhere.

• The DC supply source shall be located within the same premises as this equipment.

• Switching or disconnecting devices shall not be in the earthed circuit conductor between the DC source and the point of connection of the earthed electrode conductor.
Danger

Electrical current from power, telephone, and communication cables is hazardous.

To avoid a shock hazard:

- Do not connect or disconnect any cables or perform installation, maintenance, or reconfiguration of this product during an electrical storm.
- Connect all power cords to properly wired sources.
- Connect to properly wired power sources any equipment that will be attached to this product.
- When possible, use one hand only to connect or disconnect signal cables.
- Never turn on any equipment when there is evidence of fire, water, or structural damage.
- Disconnect the attached DC power sources before you open the device covers, unless you are instructed otherwise in the installation and configuration procedures.
- Connect and disconnect cables as described in the following table when you install, move, or open covers on this product or attached devices.