

Ensuring Power Supply EMI System Compliance

All NAI power supplies include fully integrated EMI filters designed to comply with **MIL-STD-461, CE102**. In order to comply with system requirements it is important to pay special attention to all system wiring to the input and from the output(s) of the power supply. This is especially important with regards to radiated emissions (RE) in that improperly shielded, terminated or routed cables can actually act as antennae. Some recommendations for system compliance are as follows:

- Input and output wires should be routed so as not to cross
- Use shielded or twisted pair wires whenever possible
- Terminate shields and grounds properly
- Ground the power supply to the system (a good connection to the baseplate typically ensures this)
- When using multiple power supplies in a system there may be the need to utilize a system (cleanup) filter

