

Cat 5e/6 Transient Voltage Surge Suppressors

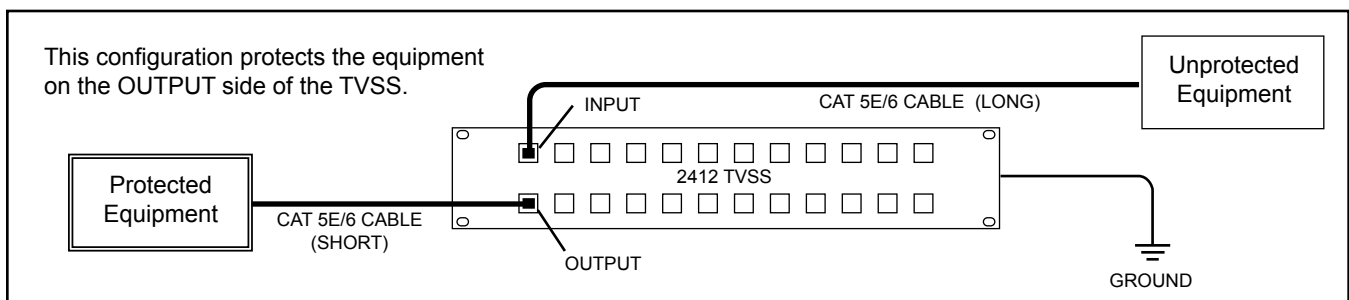
Using 2401 and 2412 with Audio Authority® Products:

2400 Series TVSS (Transient Voltage Surge Suppressors) are ideal for use with all Audio Authority products having RJ-45 connections (Cat 5e/6). See reverse for other equipment.

Long stretches of UTP cable can attract induced current from lightning or other transient voltage. Use 2400 Series TVSS to protect vital equipment. Each surge suppressor protects the equipment on one end of the (long) UTP cable – to protect equipment on both ends of the cable run, use two surge suppressors, one at each end.

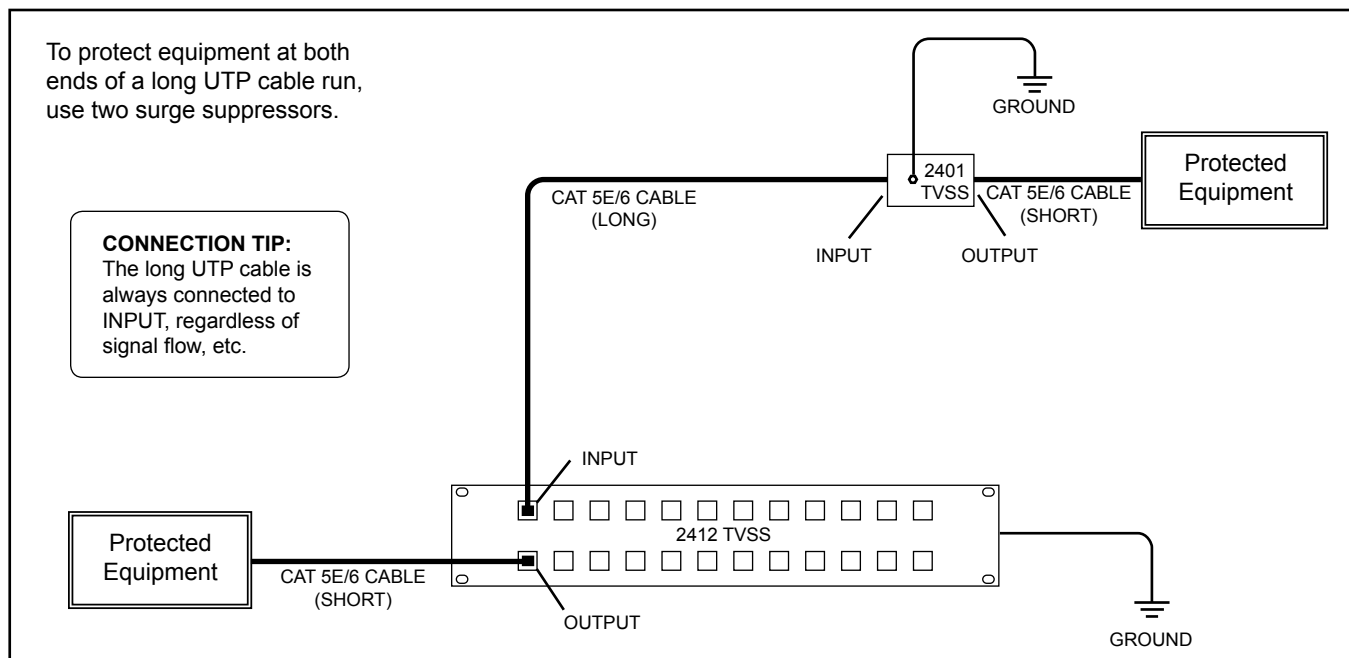
Single-End Protection Installation

1. Remove AC power from all equipment and connect surge suppressor ground stud to ground.
2. Connect equipment to be protected to the TVSS OUTPUT port via a short UTP cable (Model AVM-562, 1510, etc.).
3. Connect the TVSS INPUT port to the UTP cable leading to remote equipment (Model 9879, 1500, 1520, etc.).
4. Apply AC power to all equipment and observe normal operation. If equipment does not operate properly, disconnect the TVSS and call Audio Authority Technical Support at 800-322-8346.



Two-End Protection Installation

1. Remove AC power from all equipment and connect surge suppressor ground studs to ground.
2. Connect rack equipment to the OUTPUT port via a short UTP cable (e.g. AVM-562 or 1510).
3. Connect the long UTP cable between the INPUT ports of the 2412 or 2401 surge suppressors.
4. Connect the second 2412 or 2401 OUTPUT to remote equipment (e.g. 9879, 1500, 1520.).
4. Apply AC power to all equipment and observe normal operation. If equipment does not operate properly, disconnect the surge suppressor and call Audio Authority Technical Support at 800-322-8346.



Using 2401 and 2412 with All Other (Non-Audio Authority) Products:

1. Test the system to verify that the voltage does not exceed the MCOV (Maximum Continuous Operating Levels) listed in the table below.
2. Actual measurement with an oscilloscope, or verification through review of 'as installed' equipment specifications may be sufficient to establish compliance.
3. If the circuit exceeds Maximum Continuous Operating Levels in voltage, **do not proceed with the installation.**

Nominal System Voltage	Maximum Continuous Operating Voltages (MCOV)	Maximum Data Rate	Maximum Continuous Operating Current
5V	7.5V	Up to 100 Mbps	500 mA
12 V	15 V	Up to 100 Mbps	500 mA
24 V	36V	Up to 100 Mbps	500 mA
48 V	54 V	Up to 100 Mbps	500mA
140 V	140 V	Up to 100 Mbps	500mA

Models specified for application voltages must have an MCOV greater than the Nominal Operating Voltage

The 2401 and 2412 are designed to protect designated pins of the RJ-45 connector, operating at 140 V or less. They are typically installed on the output of industrial electronics.

There are no position-oriented components in the 2401 series units; therefore, the devices can be mounted upside down or sideways to allow for the most efficient installation.

CAUTION: Do not proceed further until power has been removed from the electrical system.

STEP 1: Wiring the Unit

- Connect a ground wire (#6-12 AWG) from ground lug to system ground.
- Connect incoming line(s) to the INPUT RJ-45 receptacle(s).
- Connect outgoing line(s) (to load or equipment) to the OUTPUT RJ-45 receptacle(s).

STEP 2: Restart the system and check for proper operation

- Equipment may require recalibration due to the additional resistance of the suppressor on the line.
- If your equipment does not operate properly, remove the suppressor and contact Audio Authority.

5 Year Warranty

This product features a special 5 Year Guaranteed Repair or Replacement Warranty, which supersedes Audio Authority's normal warranty terms. Contact our technical support department for more information.



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