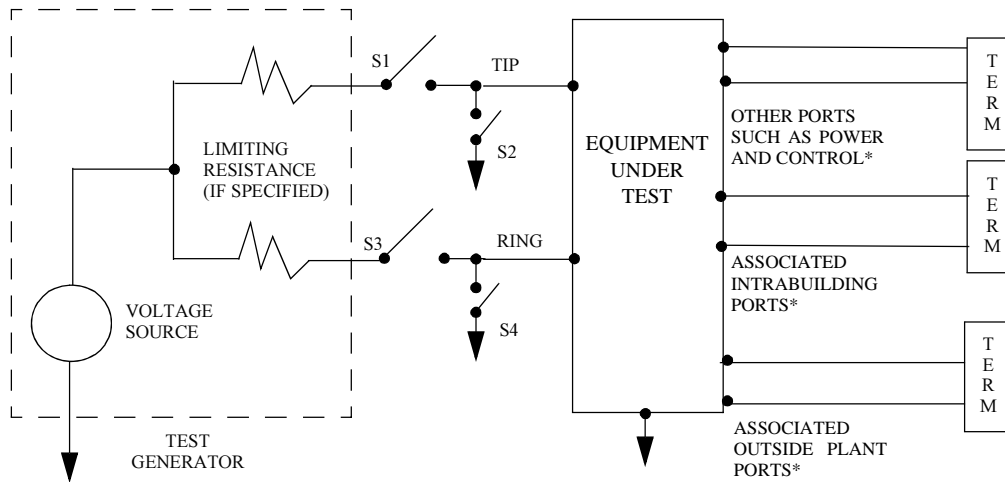


Figure 4-2 Application of Lightning and AC Power Fault Test Voltages



CONNECTIONS TO TEST GENERATOR

	S1	S2	S3	S4
T TO GENERATOR, R TO GROUND (Condition A1 of Table 4-1)	CLOSED	OPEN	OPEN	CLOSED
R TO GENERATOR, T TO GROUND (Condition A2 of Table 4-1)	OPEN	CLOSED	CLOSED	OPEN
T TO GENERATOR, R TO GENERATOR, SIMULTANEOUSLY (Condition A3 to Table 4-1)	CLOSED	OPEN	CLOSED	OPEN

* PORTS ASSOCIATED WITH THE UNIT SHOULD BE TERMINATED AS DESCRIBED IN SECTION 4.6.1

4.6.7 First-Level Lightning Surge Tests (Telecommunications Port)

System-level testing is intended to establish the lightning surge immunity of the subassembly under test, as well as the entire system. The EUT is placed in an operating system with the system performing its design-intended functions. Proper operation of the system is verified by monitoring an adjacent telecommunications port(s) after the surge sequence. The port under test is checked for proper operation prior to and after the surge sequence. Manual intervention or power cycling is not permitted before verifying proper operation of the system and EUT.

For example, if a line card for use in a central office switch is being tested, the line card to be tested is plugged into the switch surrounded by other line cards, and the switch is processing calls. The line card port under test does not need to be handling calls, but the application of surges shall not disrupt operation of other parts of the switch or other ports of line card under test. Proper operation of the switch is verified by monitoring a line card adjacent to the tested line card after each surge