



Voice Systems  
Communications Standards and Specifications  
(For Existing K-12 and Selected Support Sites)

PART 1 – GENERAL

1.01 Installation Specifications

A. Principal items of work should include, but not be limited to the following:

- 1) Classrooms should have a minimum of four jack locations. (One wall jack by the door and three floor-level jacks on three of the classroom walls.)
- 2) Administrative offices, conference rooms, and work/copier areas should have three jack locations distributed around three of the four walls of the space.
- 3) Administrative support staff areas should have a jack location for each desk plus at least three spare jacks distributed around three of the four walls of the space. Additionally, a jack must be located at the counter area.
- 4) Each jack location (besides the jack locations for the wall mount telephones next to classroom doors) should consist of dual RJ-11X jacks.

PART 2 – PRODUCTS

2.03 CABLE TYPES

- A. Each jack location (besides the jack locations for the wall-mount telephones next to classroom doors) should consist of dual RJ-11X jacks.
- B. Each RJ-11X jack position should be fed by a four-pair Cat 3 or Cat 5 non-plenum cable.

3.05 INSTALLATION

- A. Each floor of each building should have at least one IDF with every four-pair feed cable punched down on a split 66 block.
- B. The IDF should be large enough, and with enough split 66 blocks, to accommodate a fifty percent growth potential.
- C. The feed cable (CAT 3 or Cat 5) between each IDF and the MPOE should contain at least fifty percent more cable pair than the total number of telephones served by the IDF.

- D. Every pair of IDF feed cable to the MPOE should be terminated on a split 66 block.
- E. All cable runs should be contained in conduit or raceways.
- F. The wall-mounted telephone locations should be single-gang boxes attached to the wall framing. The faceplates should have screw terminals.