



CI-0704

TAB 7: TECHNICAL DISCIPLINES Communications

COMPONENTS

P.A. System Controller

Rack

The P.A. System Controller shall be housed in a clear width 483mm (19") 35U rack enclosure having external dimensions of (559mm W X 635mm D X 1,500mm H) (22"W x 25"D x approx. 60" H).

Note: The cabinet shall be floor standing with lockable front and rear doors. The enclosure shall be fully welded construction, with ventilation slots provided in both sides and front. Finish shall be textured black polyester powder coat. Wiring ducts shall be provided within the enclosure to route internal wiring between the various control assemblies. All internal wiring shall be marked with point-to-point identification using heat shrink sleeve markers. Unused enclosure U spaces shall be provided with blanking plates.

Quick Disconnect Terminal

All speaker cabling entering the communication enclosure shall be individually connected to a "quick" disconnect terminal.

The quick disconnect facility shall allow individual outgoing zone cables to be quickly disconnected from the controller without the use of a screwdriver. The rail shall be marked to identify each respective zone/cable and incoming cables shall be tie-wrapped to rigid internal cable bars to prevent undue movement.

The termination rail also provides individual earth (ground) terminals to allow the screen of each zone cable to be grounded. A laminated termination rail diagram, in addition to a control riser and/or single line block diagram shall be mounted on the inside of the rear door and a copy of such drawings shall also be included in the system manual.

Surge Protection

An independent transient voltage suppression and surge protection device shall be provided meeting UL 1449 TVSS rating power source located at the bottom of the enclosure. All required control system power supplies shall be installed on a "quick disconnect" DIN rail.