

800 MHz of approximately 3.5 dB per 100 feet is used. The coax used should be a nominal RG-8 type with a flame retardant rating except when installed in space where moving air (heating and/or cooling) exists. In which case the coax must be "plenum" rated. For long runs that exceed 150 feet, the use of low loss ½" coax is desirable. Of primary concern is the isolation between the outside antenna and the inside antennas.

**Important note:** A high degree of isolation must be afforded in order to prevent any re-generative feedback in the system. Feedback of this nature causes the amplifier to emit a continuous signal of maximum amplitude and could, in some cases, interfere with normal operation of the cell site. This isolation should be in the order of 70 dB and is usually obtained by mounting the outside antenna away from the edges of the roof. The use of window mounts or other non-rooftop mountings should be avoided.

#### SAFETY PRECAUTIONS



For INDOOR use, an Omni-Directional Antenna with a maximum gain of 3dBi is authorized for use with this unit. Inside antennas must be positioned to observe minimum separation of 20 cm. (~ 8 in.) from all users and bystanders. For the protection of personnel working in the vicinity of inside (downlink) antennas, the following guidelines for minimum distances between the human body and the antenna must be observed.

The installation of an INDOOR antenna must be such that, under normal conditions, all personnel cannot come within 20 cm. (~ 8.0 in.) from any inside antenna. Exceeding this minimum separation will ensure that the employee or bystander does not receive RF-exposure beyond the Maximum Permissible Exposure according to FCC RF exposure requirements i.e. limits for General Population/Uncontrolled Exposure.