

Typical antenna system

Shown with 4 vertical dipoles (4 bays)

Distance between dipoles
 $X = 300 / \text{Freq(MHz)} * 0,85$
 $X = 2,3\text{m}(108\text{MHz})$
 $X = 2,6\text{m}(98\text{MHz})$
 $X = 2,9\text{m}(88\text{MHz})$

Recommended mast type:

Maximum 110mm diameter guyed design. Higher diameter can distort radiation pattern or increase SWR

Ensure lightning protection of tower and ground the coaxial cable at the combiner, at the base of the tower and at the point of entry into the building.

Mains surge protection should be installed at the point of entry of mains into equipment building. Suitable AVR/UPS is also recommended.

Always check antenna system performance before powering up any transmitter!

Occasional maintenance checks are recommended!

