

Radio Beacon Antenna

CV-027

- ★ FOR NDB, NAVTEX
- ★ COMPACT, HIGH EFFICIENCY
- ★ ECONOMICAL DESIGN

1. DESCRIPTION AND PURPOSE

The CD CV-027 is a top loading type, LF and MF band, vertically polarized omnidirectional antenna. It is equipped with a loading element and a loading coil on its antenna top and it contributes to provide a high efficiency and to reduce overall size. This antenna uses an antenna coupler and recommended frequency range is 0.2-1.75MHz. The antenna have a low angle radiation pattern and provide both short and long range MF respectively. The radiation pattern in the azimuth plane is essentially omnidirectional while the elevation pattern is not varies into the MF band. 36 ground radials are included in this antenna. 15 man-days are required for assembly and installation of the antenna except pouring of concrete foundations and ground screen installation.

Electrical Characteristics	Mechanical Characteristics
Polarization Vertical	Antenna Height
Recommended Frequency 0.2 - 1.75 MHz	Ground Screen Radius
* Frequencies are available upon request.	Weight, Net (without coupler) 250kg
This CV-027-x attaches antenna coupler CM-027-x.	Wind Loading Capability 45m/sec
Radiation Pattern Omni-directional	
Radiation Resistance 40 ohms / 0.4MHz	
RF Power Capability Ave./PEP	
CV-027-1 0.2kW/0.4kW	
CV-027-2 1kW/ 2kW	
Input Connector Type - N -	

2. EQUIPMENT SUPPLIED

The model CV-027-x is delivered with the units described below. The downing for each unit are attached with this specification sheet.

1. Antenna Unit: CV-027-xA Radiator Element, O.B. Light, Grounding Parts.

2. Antenna Coupler Unit: CM-027-1

CM-027-2

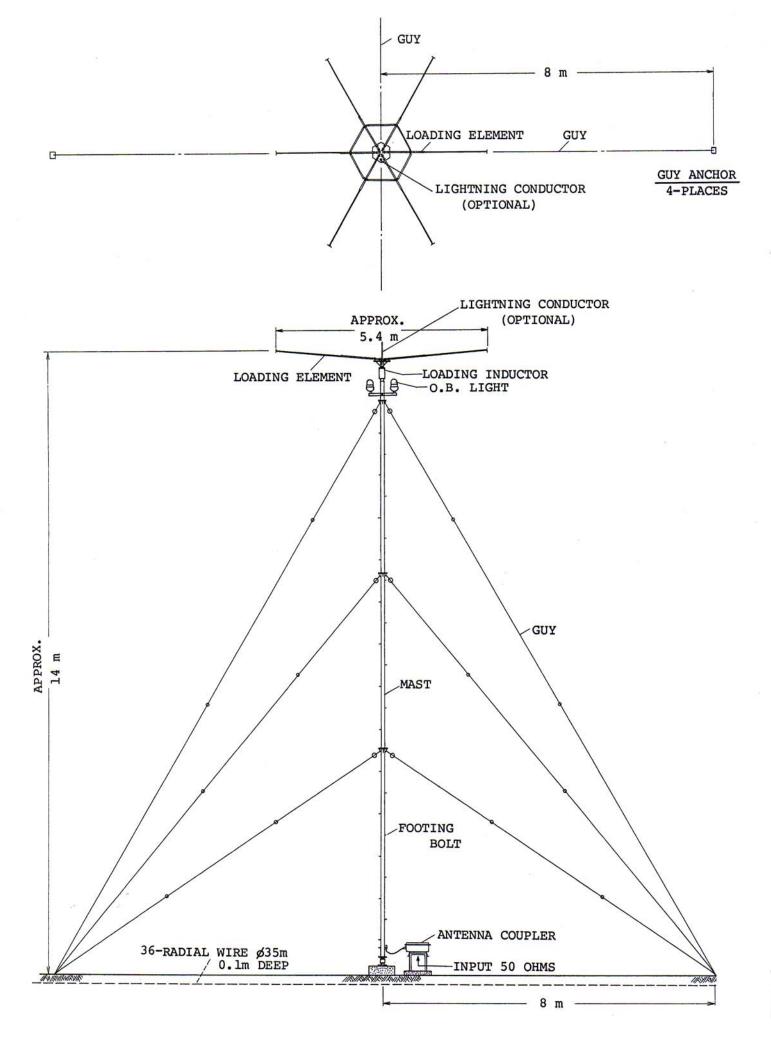
Frequency: MHz

3. EQUIPMENT REQUIRED BUT NOT SUPPLIED

The followings are not supplied but will be required in installation and operation.

- 1. Concrete and Reinforcing Bars
- Coaxial Cable and Connector
 O.B. Light Cable and Power
 -wires

180-250VAC. 100VA



MF Parasol Antenna, CV-027.