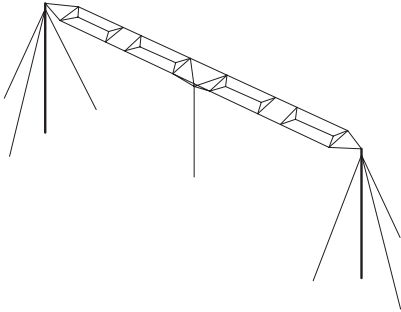


BASE ANTENNA

TRAVELLING WAVE DIPOLE



CODAN
COMMUNICATIONS



KEY FEATURES

- 2 to 30 MHz frequency range
- Omni-directional radiation
- High efficiency
- Short to medium distance coverage
- Up to 1000 W RF power rating
- Rated for data

The Travelling Wave Dipole Antenna is a very efficient antenna for short to medium distance communications. Its radiation patterns are generally omni-directional, resulting in a consistent coverage over the frequency range. Designed for 100% duty cycle voice and data operation at the rated power level.

PERFORMANCE

Codan's TWD Antenna supports operation over the frequency range of 2 to 30 MHz, and is capable of full duty cycle voice and data operation at the rated power levels.

The antenna is essentially omni-directional, but has a good combination of high and low angle radiation to support both short and medium distance HF communications. The large size of the antenna enables a very high level of radiation efficiency thus maximising on-air performance.

The broadband design of the antenna eliminates the need for a separate antenna tuner unit, the antenna is connected to the transceiver via a single coaxial cable.

Manufactured using materials designed for long service life, the TWD is built to survive in harsh outdoor environments.

INSTALLATION

The antenna requires two masts of 15 m in height separated by 40 m. Typically the antenna is installed at full height of 15 m, but can be installed at a lower height to improve communications over shorter distances. For long distance links the TWD should be oriented broadside to the required direction of communication.

SPECIFICATIONS

ELECTRICAL

Frequency range	2-30MHz or 3-30MHz variants available
Power rating	125 W or 1000 W PEP
Nominal impedance	50 Ω
VSWR	Typically < 2.5:1
RF connector type	UHF-type (125 W), N-type (1000 W)

MECHANICAL

Mast heights	2 masts at 10 to 15 m each
Mast spacing	40 m
Wind rating	200 km/hr, no ice
Packed weight	36 kg (125 W), 46 kg (1000 W)

ACCESSORIES

- Coaxial cables (RG58 or low loss RG213)
- Lightning protection kit
- CT15 telescopic mast

Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.