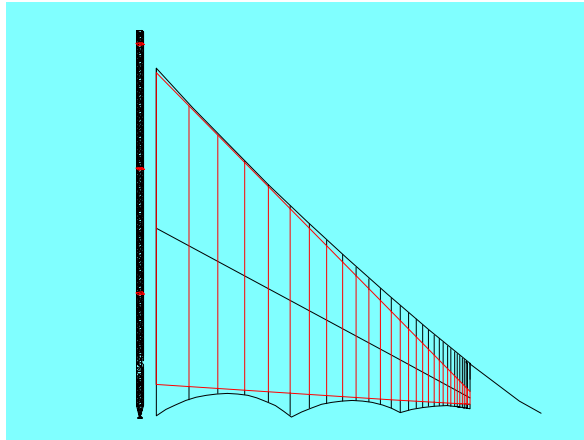


Log Periodic Dipole Antenna HL210A3



Brief description

The Log-Periodic Dipole Antenna HL210A3 receives ground waves and vertical polarized sky waves. It can be used for detection of very weak signals. The highest sensitivity is at low and medium elevation angles according to the physics of vertical polarised sky waves.

For the additional reception of horizontal polarized signals a combination with the horizontal polarized Log-Periodic Antenna HL410A3 is possible.

Due to the half-power beamwidth of 120° of one single antenna a star shaped arrangement of additional antennas leads cost-efficiently to an antenna system for round reception.

- Detects even very weak signals
- Very high efficiency due to dipole structure
- Extremely large frequency range
- No ground net necessary
- Smallest dimensions for 1.5 to 30 MHz with high directivity
- Low maintenance necessary

Specifications

Frequency range	1.5 to 30 MHz
Polarization	vertical
Nominal impedance	50 Ω
VSWR	
1.5 to 2 MHz	< 6
2 to 30 MHz	< 2.5 (typ. <2)
Directivity	
1.5 to 2 MHz	8 to 10.5 dB
2 to 30 MHz	10.5 to 12 dB
Efficiency	>90 %
Connector	N female
Max. wind speed (without ice deposit) survival	170 km/h
acc. to DIN 4131	145 km/h
(with ice deposit) acc. to DIN 4131	135 km/h
MTBF	≥ 100.000 h
Dimensions	
Total length of antenna	approx. 97 m
Height of mast	approx. 90 m