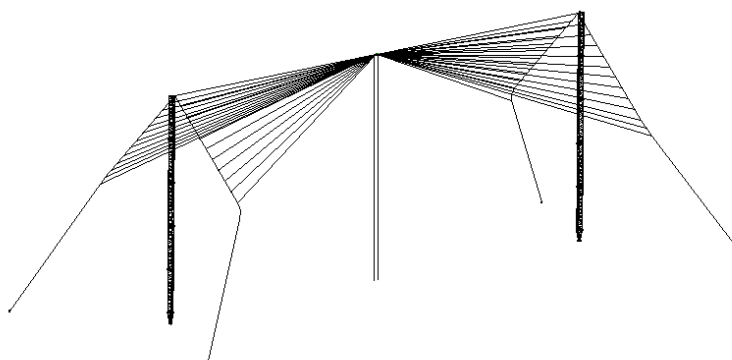


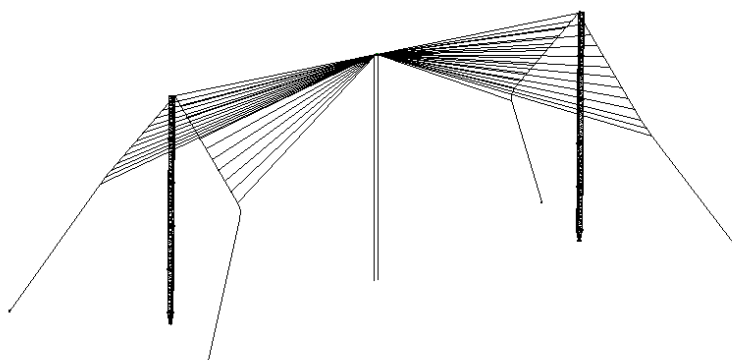
HF ANTENNA HFD2-30



HFD2-30 GENERAL OVERVIEW, WHEN MOUNTED TO TWO 500/30-30 MASTS.

Type	HFD2-30
Frequency	2-30 MHz
Bandwidth	28 MHz
Impedance	50 Ω
VSWR	2,5 max (depending on ground properties)
Polarisation	Horizontal
Gain	6...8 dBi,(depending on ground properties).
Max. Continuous power	10 kW with EIA1 5/8"
RF-connector	EIA1 5/8"
Operational windspeed	40 m/s (default)
Survival windspeed	40 m/s (default)
Dimensions	H=29 m or as requested Distance between masts 85...120 m. Catenary wire distance from mast can be as requested (default values 120 degrees from top wire to both directions R=29 m).
Weight	450 kg (antenna) 2x1470 kg (2 x M500/30-30 masts)
Materials	Hot dip galvanized steelwires Aluminium
Options	Connector type. Other frequency ranges on request. Masts/other supporting structures.

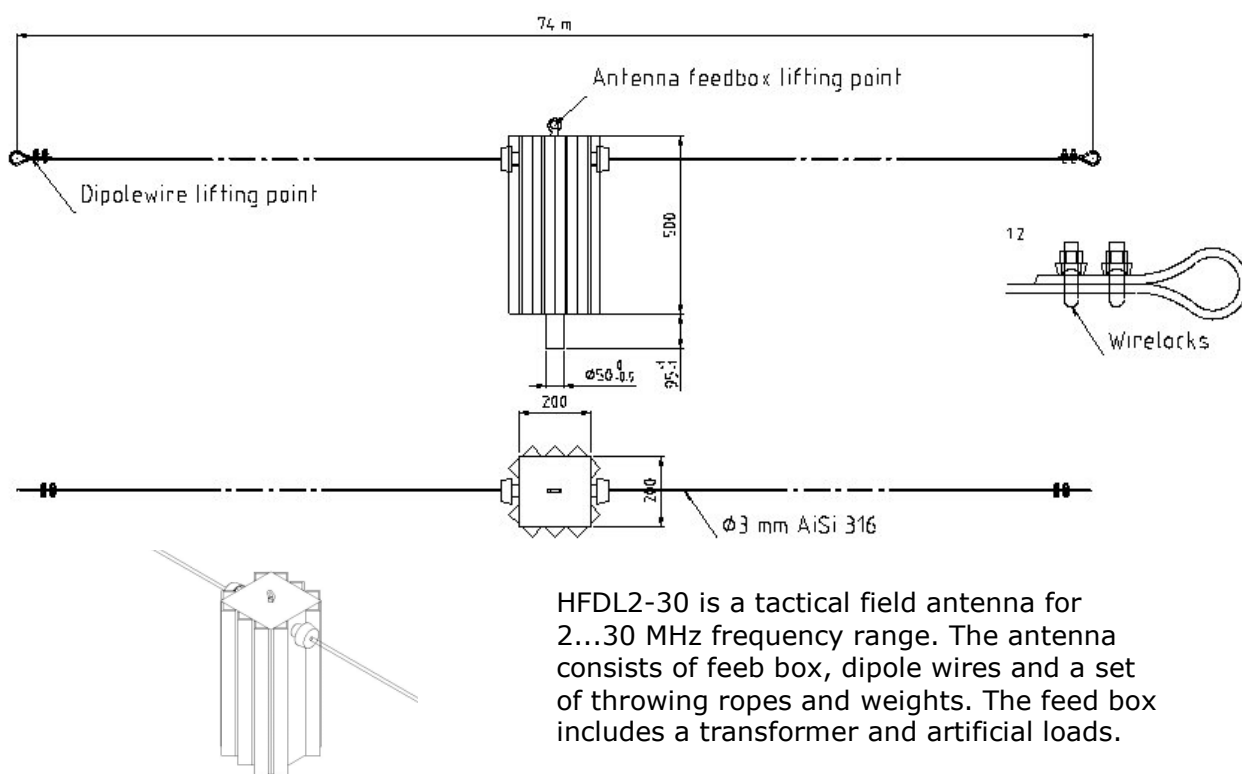
HF ANTENNA HFD3-30



HFD3-30 GENERAL OVERVIEW, WHEN MOUNTED TO TWO 500/30-20 MASTS.

Type	HFD3-30
Frequency	3-30 MHz
Bandwidth	28 MHz
Impedance	50 Ω
VSWR	Typical 2,0 and 3,0 max
Polarisation	Horizontal
Gain	3...5 dBi, depending on ground properties.
Max. Continuous power	0,5 kW, 1 kW or as requested
RF-connector	N-female, 7/16-female or EIA flange
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Dimensions	H=20 m or as requested Distance between masts 50 m. Catenary wire distance from mast can be as requested (default values 120 degrees from top wire to both directions R=15 m).
Weight	190 kg (antenna) 2x980 kg (2 x M500/30-20 masts)
Materials	Hot dip galvanized steelwires Aluminium
Options	Other frequency ranges on request Masts/other supporting structures

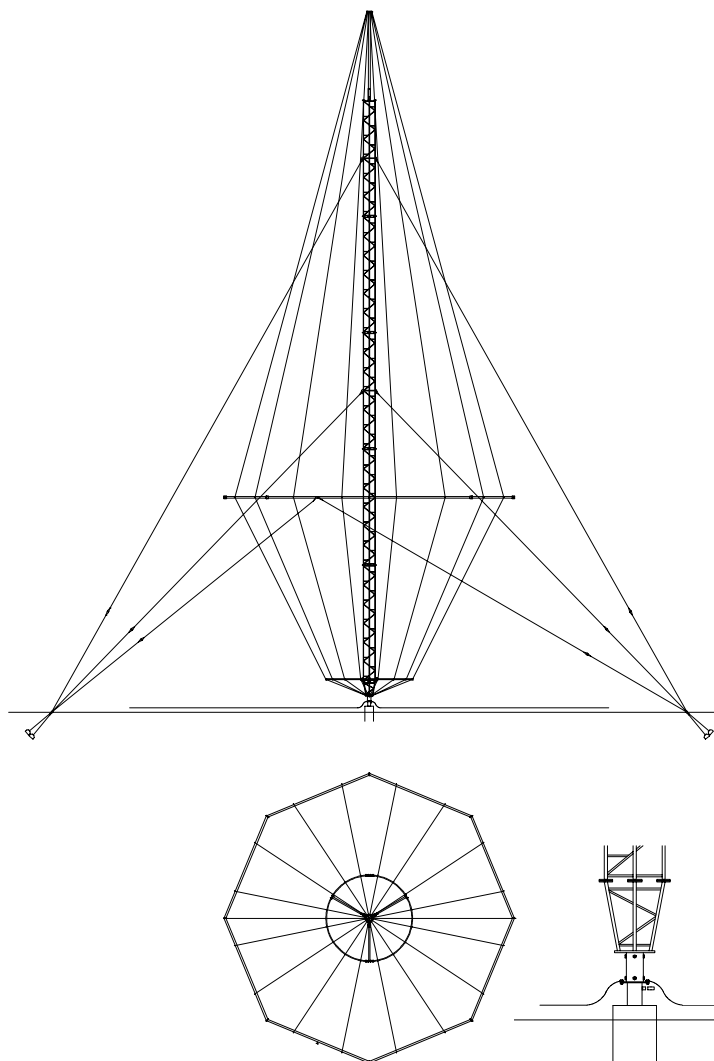
TACTICAL WIDEBAND HF-DIPOLE ANTENNA HFDL2-30



HFDL2-30 is a tactical field antenna for 2...30 MHz frequency range. The antenna consists of feed box, dipole wires and a set of throwing ropes and weights. The feed box includes a transformer and artificial loads.

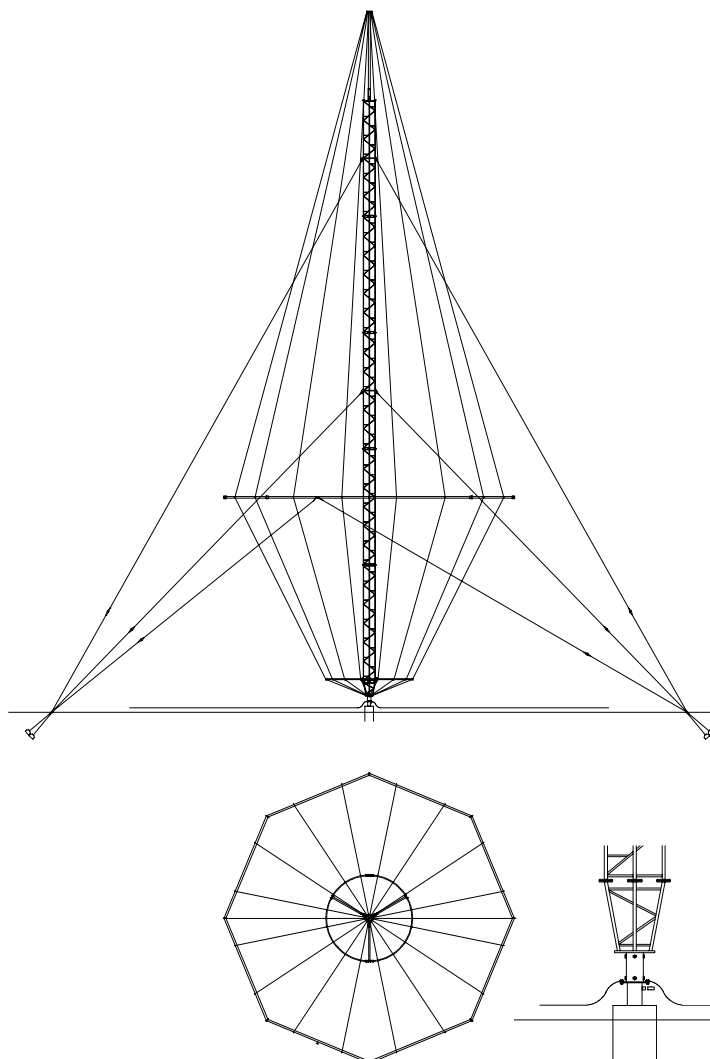
Type	HFDL2-30
Frequency	2...30 MHz
Bandwidth	28 MHz
Impedance	50 Ω DC grounded
VSWR	3,0 max with 5...60% efficiency, over medium ground.
Polarisation	Horizontal
Gain	-5...5 dBi with 5...60% efficiency taken into account, over medium ground.
E-plane 3 dB beamwidth	Depending on frequency and ground properties.
H-plane 3 dB beamwidth	Depending on frequency and ground properties
Electrical downtilt	-
Front to back ratio	-
Max. Continuous power	0,4 kW
RF-connector	N-female panel
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	0,33 m ²
Dimensions (H x W x D) ($\varnothing$ x H)	500 x 74 000 x 200 mm
Weight	6 kg
Mounting	Feed box bottom socket D=50 mm, feed box equipped with top lifting eye for hanging from trees.
Materials	Aluminium. Stainless steel wires. Glass reinforced PE insulators.
Options	Transport bag. Throwing ropes and weights.

HF ANTENNA HFV2-30



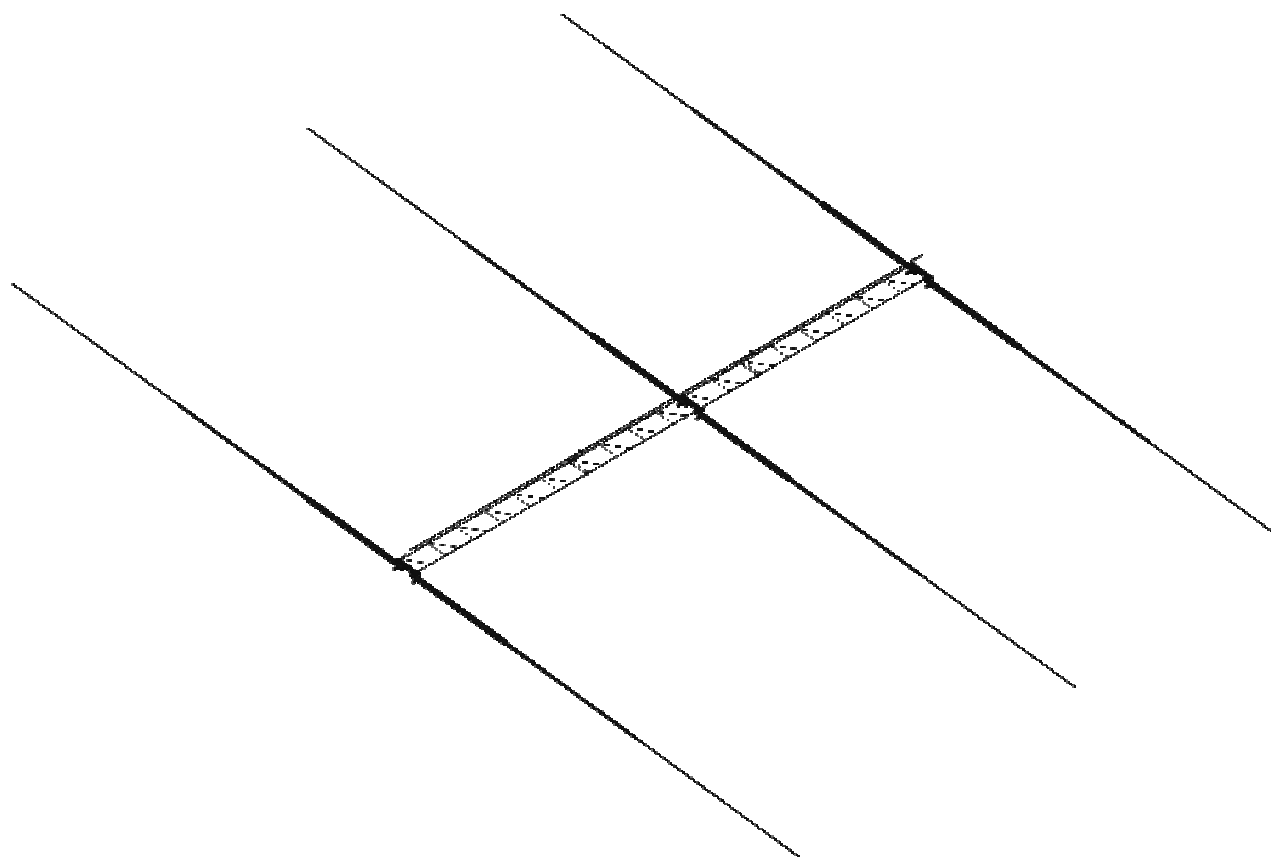
Type	HFV2-30
Frequency	2...30 MHz
Bandwidth	28 MHz
Impedance	50 Ω
VSWR	3,0 max
Polarisation	Vertical
Gain	3...5 dBi
Max. Continuous power	0,5 kW or as requested
RF-connector	N or EIA flange
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Height	35 m
Weight	900 kg
Materials	Hot dip galvanized steel
Options	Other frequency ranges on request

HF ANTENNA HFV3-30



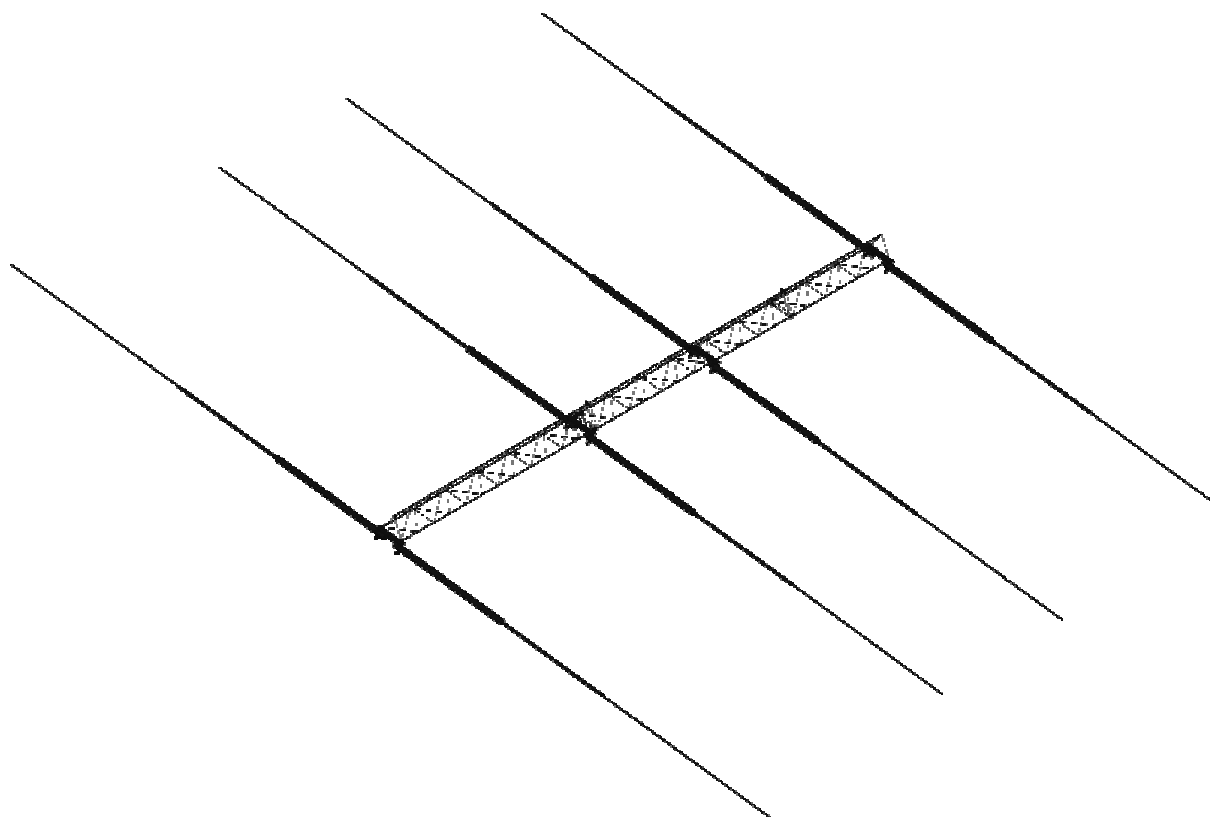
Type	HFV3-30
Frequency	3...30 MHz
Bandwidth	27 MHz
Impedance	50 Ω
VSWR	3,0 max
Polarisation	Vertical
Gain	3...5 dBi
Max. Continuous power	0,5 kW or as requested
RF-connector	N or EIA flange
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Height	22 m
Weight	400 kg
Materials	Hot dip galvanized steel
Options	Other frequency ranges on request

HF YAGI ANTENNA HFY1462



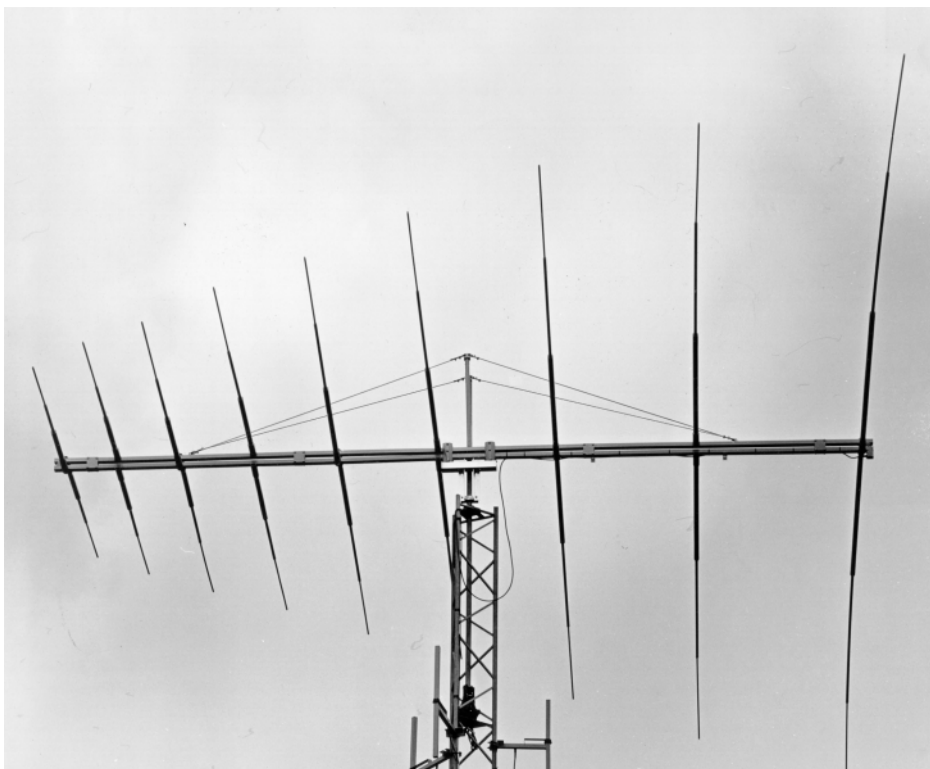
Type	HFY1462-8,75	HFY1462-13,15
Frequency	8,75 MHz	13,15 MHz
Bandwidth	2%	2%
Impedance	50 Ω DC grounded	50 Ω DC grounded
VSWR	1,3 max	1,3 max
Polarisation	Horizontal	Horizontal
Gain	8 dBi	8 dBi
E-plane 3 dB beamwidth	64°	64°
H-plane 3 dB beamwidth	100°	100°
Electrical downtilt	None	None
Front to back ratio	20 dB	20 dB
Max. Continuous power	5 kW	5 kW
RF-connector	7/8" EIA	7/8" EIA
Operational windspeed	40 m/s (default)	40 m/s (default)
Survival windspeed	55 m/s (default)	55 m/s (default)
Wind area	3,25 m ²	2,15 m ²
Dimensions		
Longest element length	18,4 m	12,3 m
Boom length	12,0 m	8,0 m
Weight	260 kg	175 kg
Mounting	As required	As required
Materials	Aluminium Hot dip galvanized steel	Aluminium Hot dip galvanized steel
Options	-	-

HF YAGI ANTENNA HFY1463



Type	HFY1463-17,3	HFY1463-22,8
Frequency	17,3 MHz	22,8 MHz
Bandwidth	2%	2%
Impedance	50 Ω DC grounded	50 Ω DC grounded
VSWR	1,3 max	1,3 max
Polarisation	Horizontal	Horizontal
Gain	9 dBi	9 dBi
E-plane 3 dB beamwidth	60°	60°
H-plane 3 dB beamwidth	90°	90°
Electrical downtilt	None	None
Front to back ratio	15 dB	15 dB
Max. Continuous power	5 kW	5 kW
RF-connector	7/8" EIA	7/8" EIA
Operational windspeed	40 m/s (default)	40 m/s (default)
Survival windspeed	55 m/s (default)	55 m/s (default)
Wind area	2,25 m ²	1,70 m ²
Dimensions		
Longest element length	9,4 m	7,1 m
Boom length	10,0 m	6,0 m
Weight	205 kg	135 kg
Mounting	As required	As required
Materials	Aluminium Hot dip galvanized steel	Aluminium Hot dip galvanized steel
Options	-	-

LOG PERIODIC DIPOLE ARRAY LPD10-30



Type	LPD10-30
Frequency	10...30 MHz
Bandwidth	20 MHz
Impedance	50 Ω DC grounded
VSWR	2,0 typical, 2,5 max
Polarisation	Horisontal
Gain	5,0 dBi, free space
E-plane 3 dB beamwidth	65°
H-plane 3 dB beamwidth	110° typical
Front to back ratio	5...15 dB
Max. Continuous power	0,5 kW
RF-connector	N or 7/16 female
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	2,5 m ²
Dimensions (H x W x D)	200 x 7500 x 15000 mm
Weight	60 kg
Mounting diameter	Pipe (customer specified)
Materials	Aluminium
Options	Mounting Max. power handling

LOG PERIODIC DIPOLE ARRAY LPD4-24



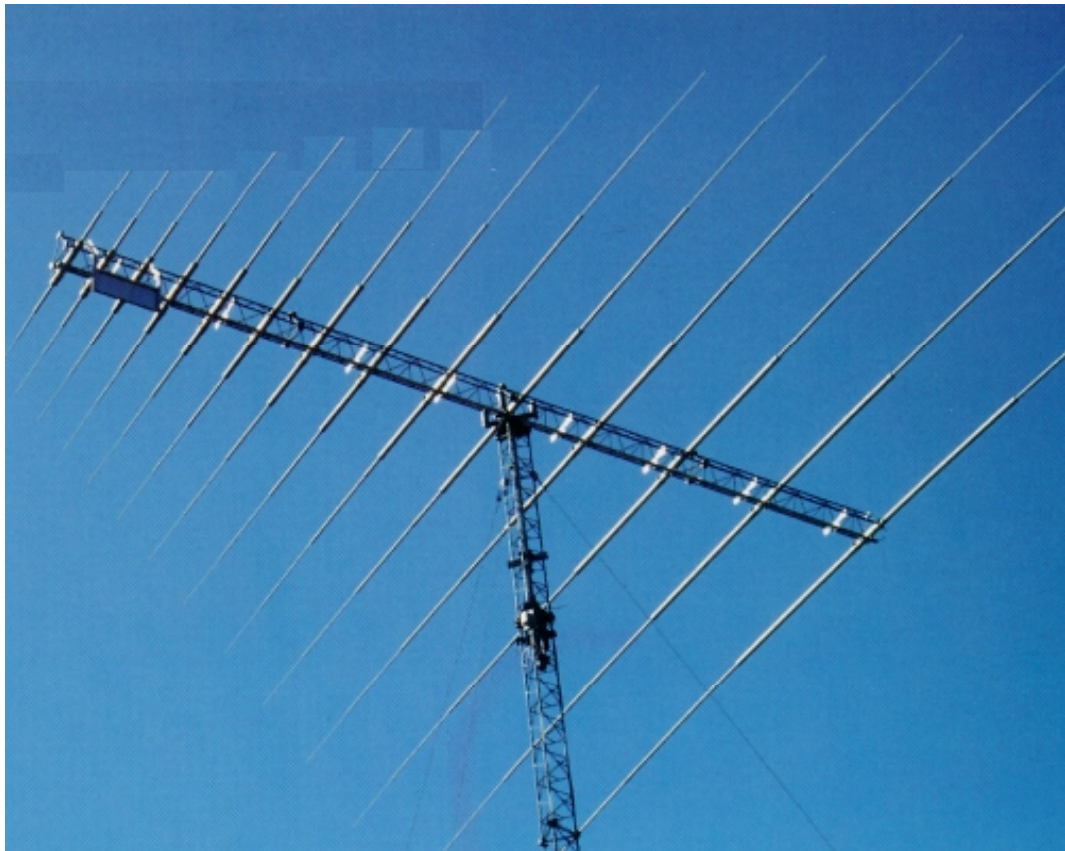
Type	LPD4-24
Frequency	4 MHz...24 MHz
Bandwidth	20 MHz
Impedance	50 Ω DC grounded
VSWR	2,5 typical, 3,0 max
Polarisation	Horisontal
Gain	8-11 dBi through frequency range over average soil conditions
E-plane 3 dB beamwidth	Nominal 65°
H-plane 3 dB beamwidth	Depending on frequency, mast height and boom tilt angle.
Electrical downtilt	None
Front to back ratio	10-18 dB through frequency range
Max. Continuous power	1 kW, 5 kW or 10 kW
RF-connector	N, 7/16 female or EIA 7/8"
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	7 m ²
Dimensions (H x W x D)	500 x 30 000 x 25 000 mm
Weight	1400 kg
Mounting diameter	Customer specified
Materials	Aluminium Hot dip galvanised steel
Options	Power rating Mounting

LOG PERIODIC DIPOLE ARRAY LPD4-30



Type	LPD4-30
Frequency	4 MHz...30 MHz
Bandwidth	26 MHz
Impedance	50 Ω DC grounded
VSWR	1,5 typical, 2,5 max
Polarisation	Horisontal
Gain	8-11 dBi through frequency range over average soil conditions
E-plane 3 dB beamwidth	Nominal 65°
H-plane 3 dB beamwidth	Depending on frequency, mast height and boom tilt angle.
Electrical downtilt	None
Front to back ratio	10-18 dB through frequency range
Max. Continuous power	1 kW, 5 kW or 10 kW
RF-connector	N, 7/16 female or EIA 7/8"
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	7 m ²
Dimensions (H x W x D)	500 x 30 000 x 25 000 mm
Weight	1400 kg
Mounting diameter	Customer specified
Materials	Aluminium Hot dip galvanised steel
Options	Power rating Mounting

LOG-PERIODIC DIPOLE ARRAY LPD6,5-30



Type	LPD6,5-30
Frequency	6,5 MHz...30 MHz
Bandwidth	23,5 MHz
Impedance	50 Ω DC grounded
VSWR	1,5 typical, 2,0 max
Polarisation	Horisontal
Gain	8-11 dBi through frequency range over average soil conditions
E-plane 3 dB beamwidth	Nominal 65°
H-plane 3 dB beamwidth	Depending on frequency, mast height and boom tilt angle.
Electrical downtilt	None
Front to back ratio	10-18 dB through frequency range
Max. Continuous power	1 kW, 5 kW or 10 kW
RF-connector	N, 7/16 female or EIA 7/8"
Operational windspeed	40 m/s (default)
Survival windspeed	55 m/s (default)
Wind area	7 m ²
Dimensions (H x W x D)	200 x 26 500 x 16 000 mm
Weight	800 kg
Mounting diameter	Customer specified
Materials	Aluminium (EN-AW 6063 T6)
Options	Power rating Mounting