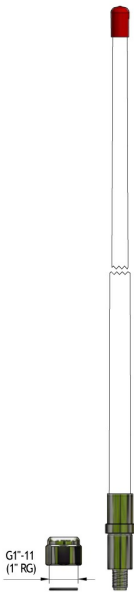


Lightweight, 6 dBd, Omnidirectional Base Station and Marine Antenna for the 900 MHz Band

DESCRIPTION

- CXL 900-6/... is a 6 dBd, vertically polarized, omnidirectional base station and marine antenna, covering the 900 MHz band in three models.
- The 1" revolving nut mounting system is standard throughout the maritime sector, and several different mounting brackets are available, making it possible to install the antenna either on the masthead, side mounted on the mast or mounted on the cross-beam. Also, the antenna can be mounted on deck or rooftop by means of the FLG. (See accessories)
- The higher the antenna is mounted, the better coverage. Avoid mounting the antenna parallel with or in the neighbourhood of other metal parts, such as masts, supporting wires etc. The antenna needs no ground-plane, radials nor other auxiliary arrangements.
- Large bandwidth with respect to both SWR and gain.
- Highly suitable for duplex operation with large spacing between the TX and RX frequencies.
- The carefully designed radiating element is sealed in a high-quality, conical glass fibre tube with low wind-load, ensuring undisturbed performance in all climates.
- To substantially reduce noise caused by atmospherical discharges, all metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.
- The CXL 900-6/... is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.



ORDERING

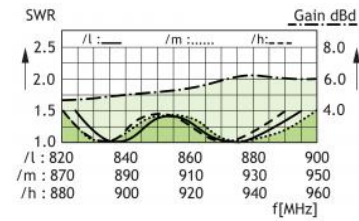
Type	Product No.	Frequency
CXL 900-6/l	110000152	824 - 894 MHz
CXL 900-6/m	100000364	870 - 950 MHz
CXL 900-6/h	100000359	890 - 960 MHz

SPECIFICATIONS

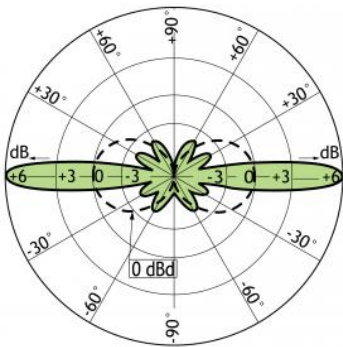
Electrical	
Model	CXL 900-6/...
Frequency	Models within 824 - 960 MHz
Antenna Type	Collinear, broad-band
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
Pattern Type	Omnidirectional
3 dB Beamwidth, E-Plane	14 °
Impedance	50 Ω
Gain	6 dBd (8.2 dBi)
VSWR	< 1.5:1
Maximum Input Power	150 W
Bandwidth	70 - 80 MHz
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	
Mechanical	
Wind Area	0.028 sq. m / 0.30 sq. ft
Connection(s)	N(f)
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Chromed brass
Colour	White (RAL 9003)
Height	1500 - 2100 mm / 59.06 - 82.68 in.
Wind Load	35 N (160km/h)
Dia. At Top End	20 mm / 0.79 in.
Weight	1.3 kg / 2.87 lb
Dia. At Bottom End	23 mm / 0.91 in.
Mounting	On 1" RG (G1" - 11) threaded water pipe or on optional mounting brackets (see accessories)
Environmental	
Operating Temperature Range	-30°C to +70°C

DIAGRAM

TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



ACCESSORIES (to be ordered separately)

FLG G1"-11 (1" RG)	SMR 1 G1"-11 (1" RG)	SMR 2 G1"-11 (1" RG)	YA-Bracket ø17
LW-SS-1" G1"-11 (1" RG)	MariFix 1 1"-14 UNS ALSO NEED ADT	MariFix 2 1"-14 UNS ALSO NEED ADT	ADT G1"-11 (1" RG) 1"-14 UNS

PLEASE NOTE

The antenna is delivered with a DC-connection between the antenna element and the mounting bracket.

