

CXL 900-6

Lightweight, 5.4 dBd, Omnidirectional Base Station and Marine Antenna for the 900 MHz Band

DESCRIPTION

- CXL 900-6/... is a 5.4 dBd, vertically polarized, omnidirectional base station and marine antenna, covering the 900 MHz band in 2 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 VSWR 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, 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.



SPECIFICATIONS

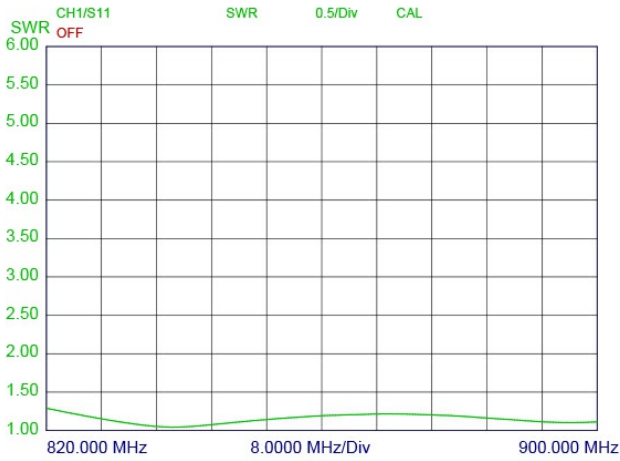
Electrical	
Model	CXL 900-6/...
Frequency	Models within 824 - 960 MHz
Antenna Type	Collinear, broad-band
Max. Input Power	150 W
Polarisation	Vertical
Pattern Type	Omnidirectional
3 dB Beamwidth, E-Plane	16 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	5.4 dBd (7.6 dBi)
VSWR	< 1.5:1
Bandwidth	70 - 90 MHz
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 008DE22

Mechanical	
Connection(s)	N(f)
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Chromed brass
Colour	White (RAL 9003)
Wind Area	0.028 sq. m / 0.30 sq. ft.
Wind Load	40 N (160km/h)
Dia. At Top End	23 mm / 0.91 in.
Dia. At Bottom End	23 mm / 0.91 in.
Height	1170 - 1220 mm / 46.06 - 48.03 in.
Weight	Approx. 0.7 kg / 1.54 lb.
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
Survival Wind Speed	200 km/h
Ingress Protection	IP66

ORDERING

Model	Product No.	Frequency
CXL 900-6/l	110000428	824 - 894 MHz
CXL 900-6/h	110000429	870 - 960 MHz

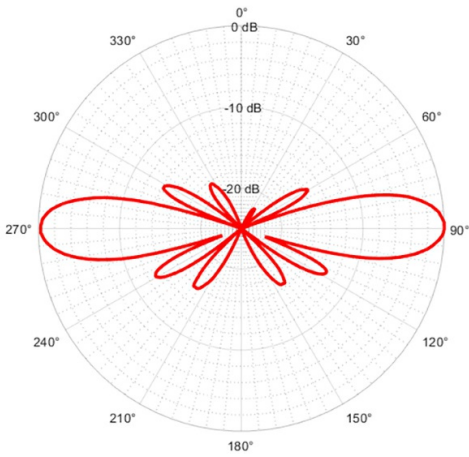
TYPICAL VSWR CURVES



ACCESSORIES (TO BE ORDERED SEPARATELY)

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

TYPICAL RADIATION PATTERN (E-PLANE)



PLEASE NOTE

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

TYPICAL RADIATION PATTERN (H-PLANE)

