

# CXL 2-3LW/...

## Lightweight, 3 dBd Marine and Base Station Antenna for the 2 m Band



### DESCRIPTION:

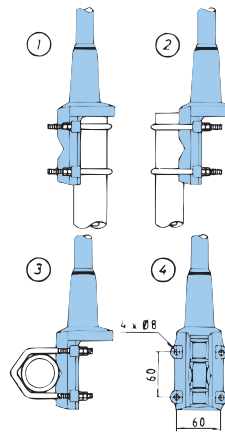
- ★ CXL 2-3LW/... is a 3 dBd, vertically polarised, omnidirectional marine and base station antenna, which covers the VHF-band in 4 models.
- ★ Provided with the sturdy "LW" mast mount – a lightweight, multipurpose, epoxy-coated mounting bracket made of non-corrosive aluminium.
- ★ The accompanying U-bolts and fittings are made of stainless steel.
- ★ To be mounted on vertical or horizontal mast tubes, 16 to 54 mm in outer diameter.
- ★ The cable can be led either on the outside or along the inside of the mast tube.
- ★ Large bandwidth with respect to both SWR and gain.
- ★ The phasing of the radiating elements is adjusted to yield maximum gain in the horizontal plane, with the level of the sidelobes reduced to a minimum.
- ★ The carefully designed, broad-banded antenna element is sealed in a high-quality conical glassfiber tube with low wind-load, which will ensure undisturbed performance by corrosive environments.
- ★ 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 2-3LW/... is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style marine and base station antenna.

### SPECIFICATIONS:

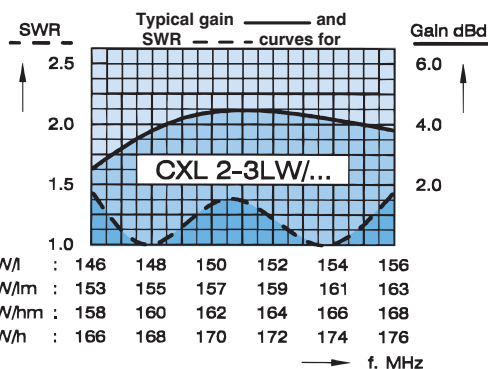
ELECTRICAL	
MODEL	CXL 2-3LW/...
ANTENNA TYPE	Broad-banded colinear antenna
FREQUENCY	Bands within 146–175 MHz
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARISATION	Vertical
GAIN	5 dBi (3 dBd)
HALF POWER BEAMWIDTH	30°
BANDWIDTH	9 MHz
SWR	≤ 1.5
MAX. POWER	150 watt
ANTISTATIC PROTECTION	All metal parts DC-grounded (connector shows a DC-short)
MECHANICAL	
TEMP. RANGE	-30° C → +70° C
CONNECTOR	N-female
WIND SURFACE	0.0651 m <sup>2</sup>
WIND LOAD	72 N (at 150 km/h)
COLOUR	Marine white
MATERIALS	Shroud: Polyurethane coated glassfiber Mounting bracket: Seawater resistant aluminium, epoxy-coated Clamps: Stainless steel
TOTAL HEIGHT	Approx. 2.8 m
DIA. IN TOP END	15 mm
DIA. IN BOTTOM END	23 mm
WEIGHT	Approx. 1.4 kg
MOUNTING	On 16 to 54 mm dia. mast tube

ORDERING DESIGNATIONS	
TYPE NO.	FREQUENCY
CXL 2-3LW/l	146–154 MHz
CXL 2-3LW/lm	153–162 MHz
CXL 2-3LW/hm	158–167 MHz
CXL 2-3LW/h	166–175 MHz

MULTI-PURPOSE MOUNTING BRACKET:

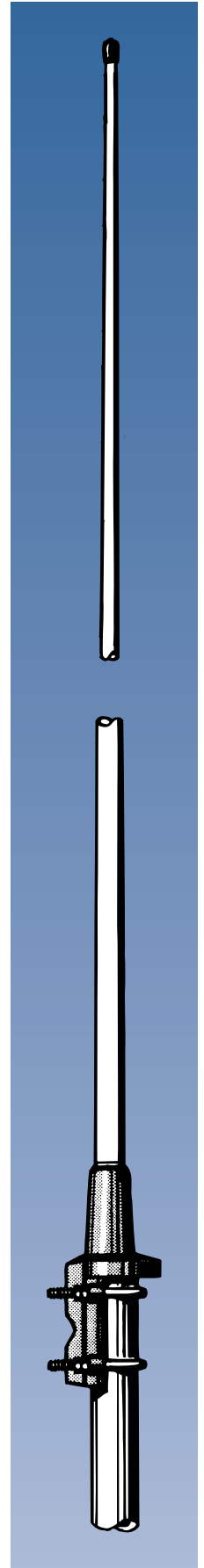


- ① Mast tube D<sub>i</sub>, min. = 30 mm  
Mast tube D<sub>o</sub>, max. = 54 mm
- ② Mast tube D<sub>o</sub>, max. = 54 mm  
Mast tube D<sub>o</sub>, min. = 16 mm
- ③ Mast tube D<sub>o</sub>, max. = 54 mm  
Mast tube D<sub>o</sub>, min. = 16 mm



### PLEASE NOTE:

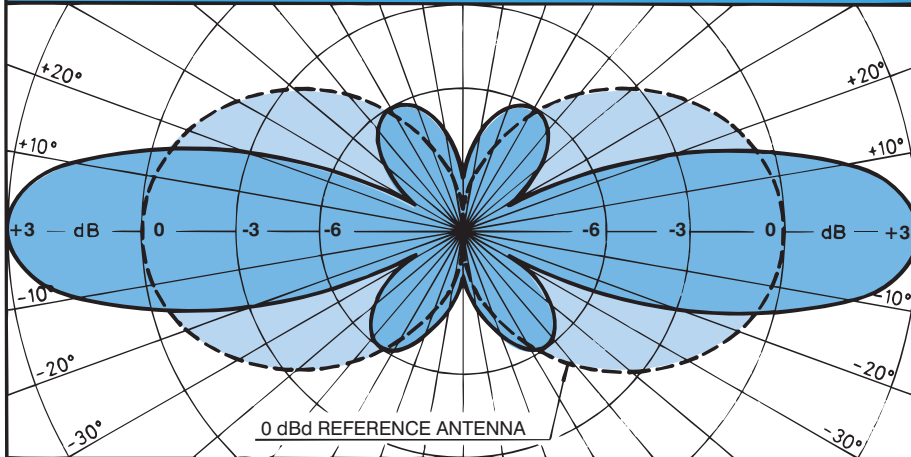
The antenna is delivered with a DC-connection between the antenna element and the mounting bracket.



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**TYPICAL RADIATION PATTERN (E-PLANE)**



**TYPICAL RADIATION PATTERN (H-PLANE)**

