

# CXL 2-3LW/...

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

PROCOM

## DESCRIPTION:

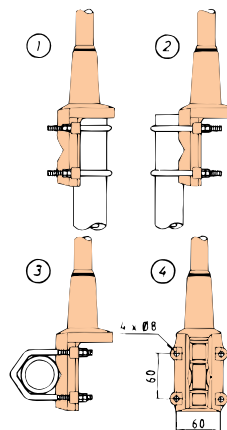
- ★ CXL 2-3LW/... is a 3 dBd, vertically polarised, omnidirectional base station and marine antenna, which covers the VHF-band in 4 models.
- ★ The antenna is provided with our sturdy type "LW" mast mount, which is a lightweight, multi-purpose, epoxy-coated mounting bracket made of non-corrosive aluminium. The accompanying U-bolts and fittings are made of stainless steel.
- ★ The antenna can be mounted on vertical or horizontal mast tubes, 16 to 54 mm in outer diameter. Further, the construction of the mount makes it possible to lead the cable either along the inside or on the outside of the mast tube.
- ★ 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 atmospheric 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 base station and marine antenna.

## SPECIFICATIONS:

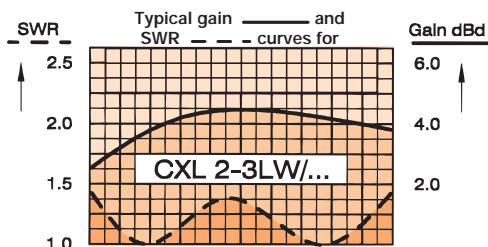
ELECTRICAL	
MODEL	CXL 2-3LW/...
ANTENNA TYPE	Broad-banded colinear antenna
FREQUENCY	Bands within 146-175 MHz
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARISATION	Vertical
GAIN	5 dBi 3 dBd
HALF POWER BEAMWIDTH	30°
BANDWIDTH	9 MHz
SWR	≤ 1.5
MAX. POWER	150 watt
ANTISTATIC PROTECTION	All metal parts DC-grounded (connector shows a DC-short)
MECHANICAL	
TEMP. RANGE	-30° C i +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	Radome: Polyurethane-coated fiberglass Mounting bracket: Seawater resistant aluminium, epoxy-coated
TOTAL HEIGHT	Approx. 2.8 m
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

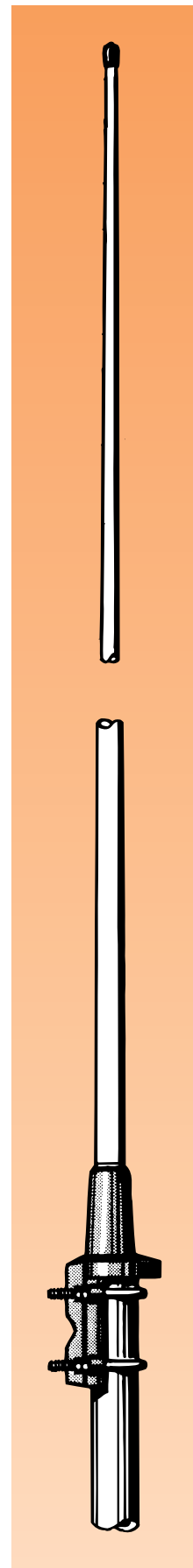


CXL 2-3LW/l	: 146	148	150	152	154	156
CXL 2-3LW/lm	: 153	155	157	159	161	163
CXL 2-3LW/hm	: 158	160	162	164	166	168
CXL 2-3LW/h	: 166	168	170	172	174	176

→ f. MHz

### PLEASE NOTE:

The antenna is delivered with a DC-connection between the antenna element and the mounting bracket (i.e. the mast tube). This feature is important when the antenna is used as a base station antenna.

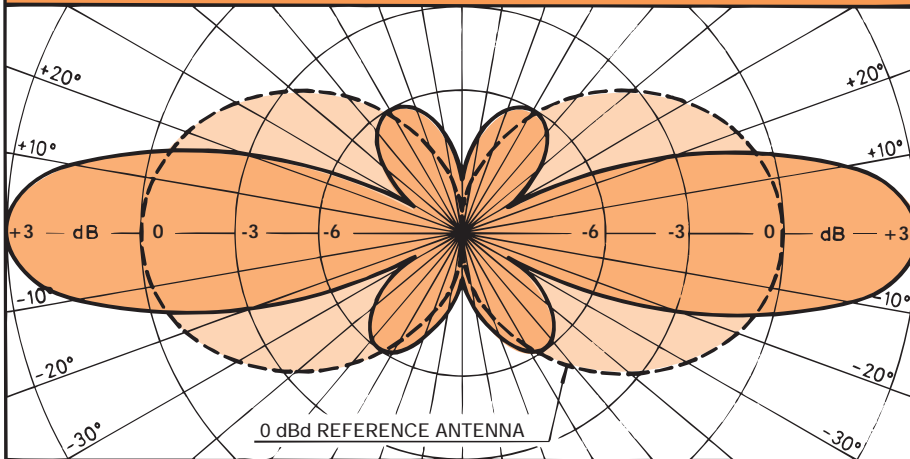


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## TYPICAL RADIATION PATTERN (E-PLANE)



## TYPICAL RADIATION PATTERN (H-PLANE)

