

# CXL 2400-8LW/...

8 dBd Omnidirectional Base Station and Marine Antenna for the 2400 MHz Band

PROCOM

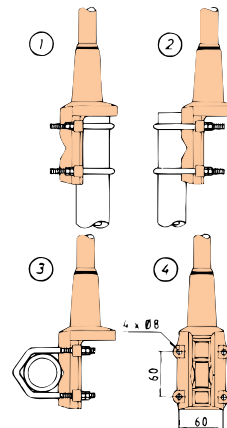
## DESCRIPTION:

- ★ Vertically polarised, omnidirectional base station and marine antenna.
- ★ Approximately 8 dBd gain.
- ★ 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.
- ★ Highly suitable for duplex operation with large spacing between the TX and the RX frequencies.
- ★ The antenna element is sealed in a high-quality, conical glassfiber tube.
- ★ All metal parts in the antenna are DC-grounded to reduce the noise caused by atmospheric discharge. Consequently, the antenna shows a DC-short across the coaxial cable.
- ★ The CXL 2400-8LW/... is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.

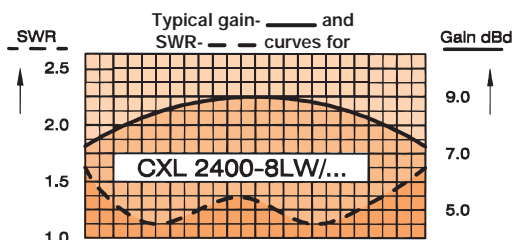
## SPECIFICATIONS:

ELECTRICAL	
MODEL	CXL 2400-8LW/...
ANTENNA TYPE	Coaxial, colinear antenna, broad-banded
FREQUENCY	Models within 2300–2660 MHz
IMPEDANCE	Nom. 50 Ω
POLARISATION	Vertical
GAIN	Average gain 10 dBi 8 dBd
BANDWIDTH	≥ 100 MHz at SWR ≤ 1.5
SWR	≤ 1.5
MAX. POWER	100 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	Approx. 0.033 m <sup>2</sup>
WIND LOAD	Approx. 36 N (at 150 km/h)
COLOUR	Marine white
MATERIALS	Radome: Polyurethane coated fiberglass Mounting bracket: Seawater resistant aluminium, epoxy-coated
TOTAL HEIGHT	Approx. 1.15 m
WEIGHT	Approx. 0.9 kg
MOUNTING	On 16–54 mm dia. mast tube

### 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 2400-8LW/l	2275	2300	2325	2350	2375	2400	2425
CXL 2400-8LW/m	2375	2400	2425	2450	2475	2500	2525
CXL 2400-8LW/h	2525	2550	2575	2600	2625	2650	2675

### ORDERING DESIGNATIONS

TYPE NO.	FREQUENCY
CXL 2400-8LW/l	2300–2400 MHz
CXL 2400-8LW/m	2400–2500 MHz
CXL 2400-8LW/h	2530–2660 MHz

### PLEASE NOTE:

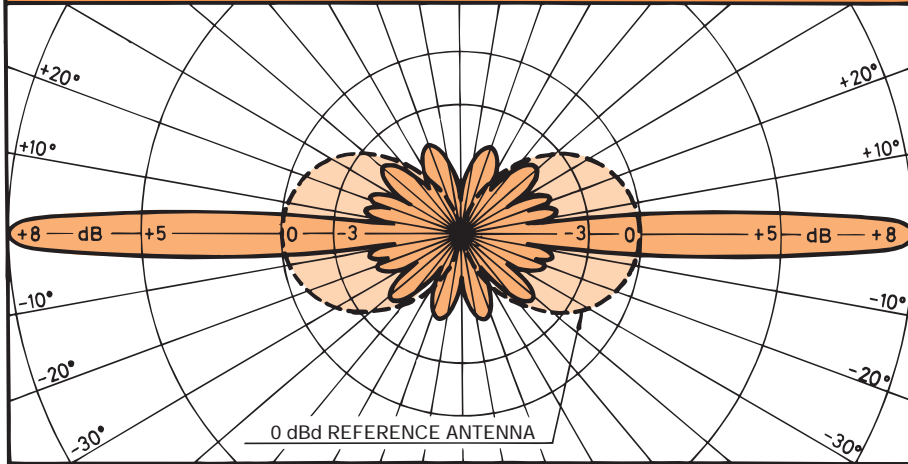
The antenna is delivered with a DC-connection between the antenna element and the mounting bracket (i.e. the mast tube). This feature is important when the antenna is used as a base station antenna.

PROCOM A/S reserve the right to amend specifications without prior notice.

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



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

