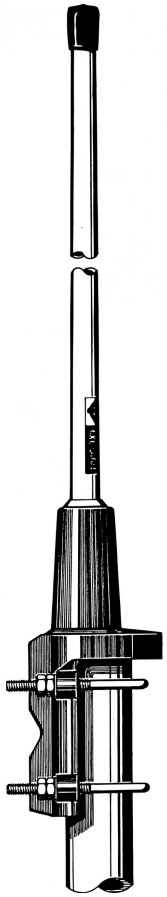
CXL 2400-3LW/...

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

DESCRIPTION

- Vertically polarized, omnidirectional base station and marine antenna.
- Approximately 3 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 glass fibre tube.
- All metal parts in the antenna are DC-grounded to reduce the noise caused by atmospherical discharge. Consequently, the antenna shows a DC-short across the coaxial cable.
- The CXL 2400-3LW/... is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.



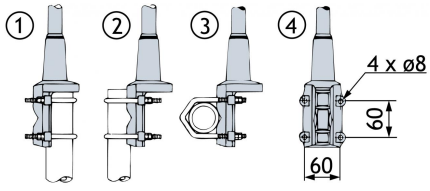
ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY
CXL 2400-3LW/II	100000557	2200 - 2300 MHz
CXL 2400-3LW/I	100000183	2300 – 2500 MHz
CXL 2400-3LW/m	100000169	2400 – 2600 MHz
CXL 2400-3LW/h	100000171	2500 – 2700 MHz

SPECIFICATIONS

ELECTRICAL	
MODEL	CXL 2400-3LW/...
ANTENNA TYPE	Coaxial, collinear antenna, broadbanded
FREQUENCY	Models within 2200 – 2700 MHz
IMPEDANCE	Nom. 50 Ω
POLARIZATION	Vertical
GAIN	5 dBi 3 dBd
HALF POWER BEAMWIDTH	22°
BANDWIDTH	For l, m and h models: ≥ 200 MHz @ SWR ≤ 2.0 For ll-model: ≥ 100 MHz @ SWR ≤ 2.0
SWR	≤ 2.0, typ. ≤ 1.5
MAX. POWER	100 W
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
MECHANICAL	
TEMP. RANGE	-30°C → +70°C
CONNECTOR	N-female
WIND SURFACE	Approx. 0.02 m²
WIND LOAD	Approx. 26 N @ 160 km/h
COLOUR	Marine white
MATERIALS	Shroud: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, epoxy-coated Clamps: Stainless steel
TOTAL HEIGHT	Approx. 700 mm
DIA. IN TOP END	22 mm
DIA. IN BOTTOM END	23 mm
WEIGHT	Approx. 600 g
MOUNTING	On 16 to 54 mm dia. mast tube

MULTI-PURPOSE MOUNTING BRACKET



① Mast tube D_i. min. = 30 mm
Mast tube D_o. max. = 54 mm

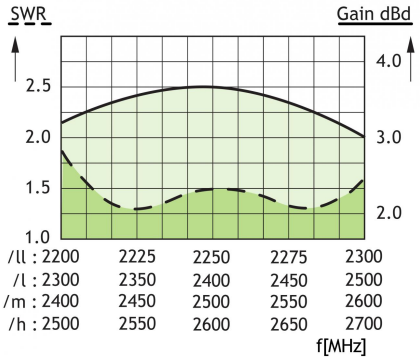
② Mast tube D_o. min. = 54 mm
Mast tube D_o. max. = 16 mm

③ Mast tube D_o. max. = 54 mm
Mast tube D_o. min. = 16 mm

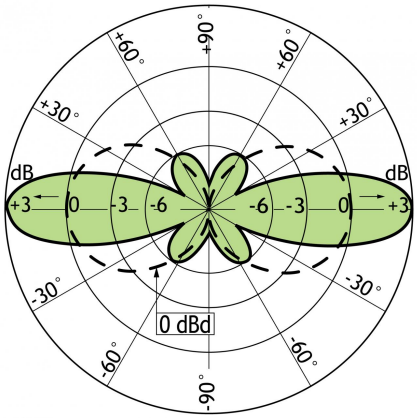
PLEASE NOTE

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

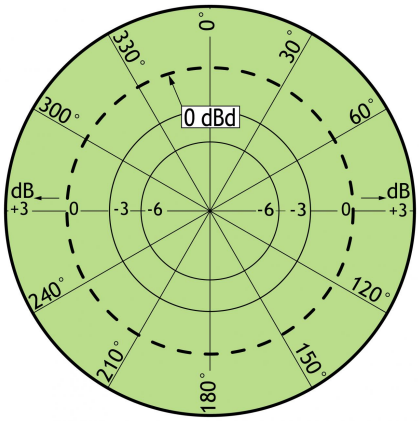
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



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

05/09/14