

# CXL 2-1LW/...

Universal, Unity-Gain Base Station and Marine Antenna for the 160 MHz Band

PROCOM

## DESCRIPTION:

- ★ This multi-purpose, omnidirectional, 0 dBd, rod-type base station and marine antenna covers the 160 MHz band in two models with 10 MHz overlap and can be used in a wide variety of applications.
- ★ The broad-banded  $1/2 \lambda$  dipole antenna element is sealed in a high-quality fiberglass tube with low wind-load, which will ensure undisturbed performance by corrosive environments.
- ★ The antenna is provided with our sturdy type "LW" mast mount, which is a lightweight, all-purpose, epoxy-coated aluminium mounting bracket with stainless steel fittings.
- ★ 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.
- ★ CXL 2-1LW/... is DC-grounded to substantially reduce noise caused by atmospheric discharges and consequently shows a DC-short across the coaxial cable.
- ★ The CXL 2-1LW/... is a vibration-proof, lightweight, slim-line, corrosion-resistant, modern style base station and marine antenna.

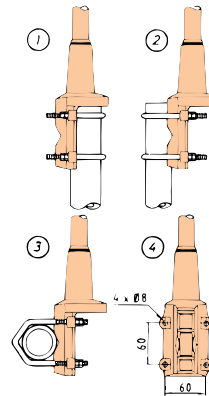
## SPECIFICATIONS:

ELECTRICAL	
MODEL	CXL 2-1LW/...
ANTENNA TYPE	$1/2 \lambda$ coaxial dipole, broad-banded
FREQUENCY	CXL 2-1LW/l: 144-165 MHz CXL 2-1LW/h: 155-175 MHz
IMPEDANCE	Nom. 50 $\Omega$
RADIATION	Omnidirectional
POLARISATION	Vertical
GAIN	2 dBi 0 dBd
BANDWIDTH	20 MHz
SWR	$\leq 1.5$
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	0.0172 m <sup>2</sup>
WIND LOAD	19 N (at 150 km/h)
COLOUR	Marine white
MATERIALS	Radome: Polyurethane coated fiberglass Mounting bracket: Seawater resistant aluminium, epoxy-coated
TOTAL HEIGHT	Approx. 1.26 m (Dep. on frequency)
WEIGHT	Approx. 0.76 kg
MOUNTING	On 16 to 54 mm dia. mast tube

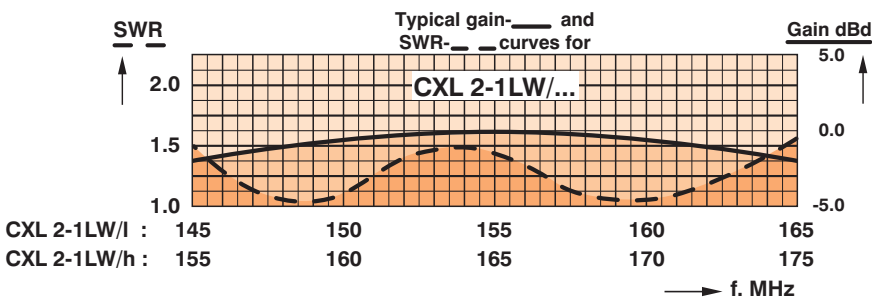
## ORDERING DESIGNATIONS

TYPE NO.	FREQUENCY
CXL 2-1LW/l	144-165 MHz
CXL 2-1LW/h	155-175 MHz

## MULTI-PURPOSE MOUNTING BRACKET:



- ① Mast tube  $D_1$  min = 30 mm  
Mast tube  $D_0$  max = 54 mm
- ② Mast tube  $D_0$  max = 54 mm  
Mast tube  $D_0$  min = 16 mm
- ③ Mast tube  $D_0$  max = 54 mm  
Mast tube  $D_0$  min = 16 mm



## 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.

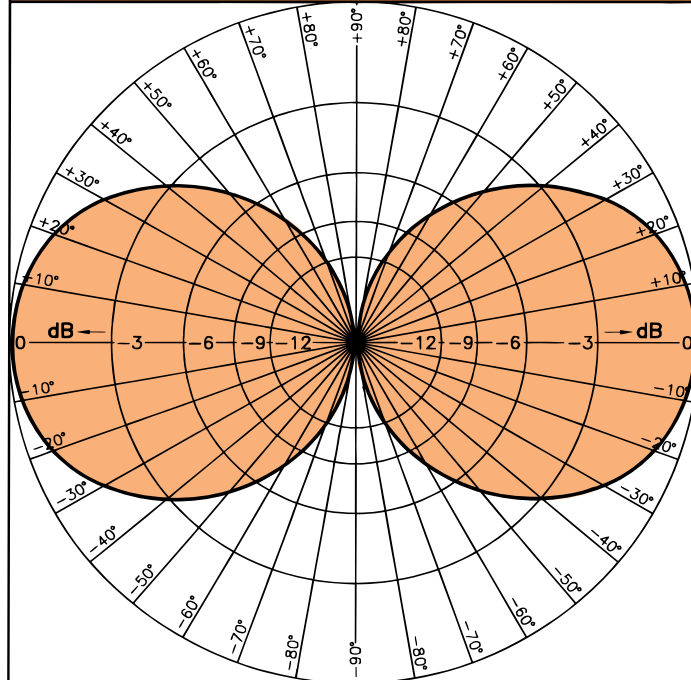
PROCOM A/S reserve the right to amend specifications without prior notice.

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## TYPICAL RADIATION PATTERN (E-PLANE)



## TYPICAL RADIATION PATTERN (H-PLANE)

