

# CXL 70-1LW/...

## Unity-Gain, Omnidirectional Marine and Base Station Antenna for the 450 MHz Band



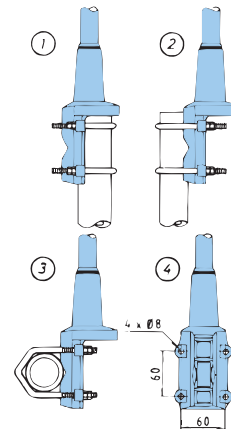
### DESCRIPTION:

- ★ CXL 70-1LW/... is a 0 dBd, vertically polarised, omnidirectional marine and base station antenna which covers the 450 MHz band in three models.
- ★ The carefully designed, broadbanded  $1/2 \lambda$ -dipole radiating element is made of brass tube and sealed in a high-quality conical glassfiber tube with low wind-load.
- ★ 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.
- ★ 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 70-1LW/... is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style marine and base station antenna.

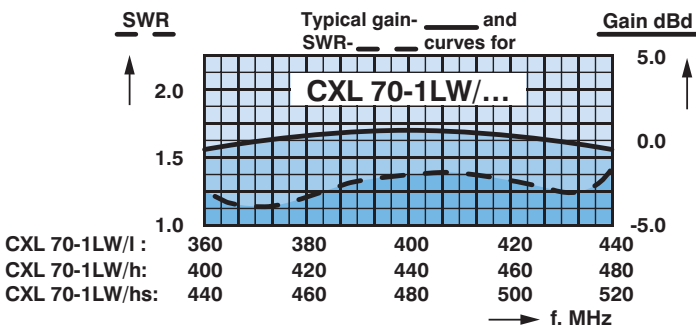
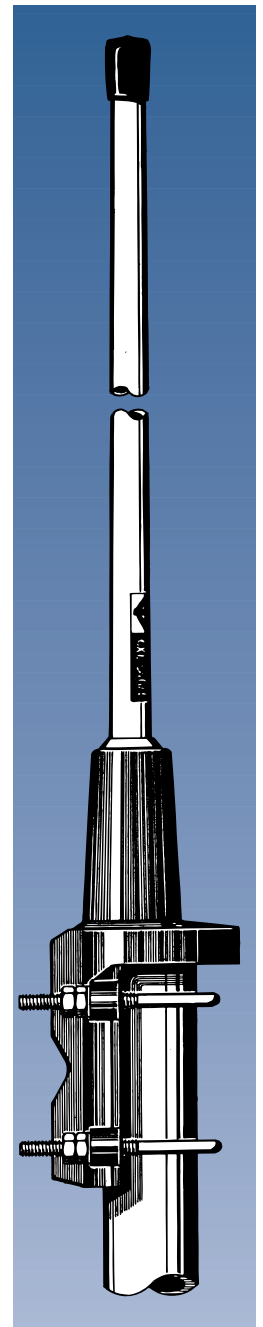
### SPECIFICATIONS:

ELECTRICAL	
MODEL	CXL 70-1LW/...
ANTENNA TYPE	$1/2 \lambda$ coaxial dipole, broad-banded
FREQUENCY	CXL 70-1LW/l : 380-430 MHz CXL 70-1LW/h : 420-470 MHz CXL 70-1LW/hs : 460-510 MHz
IMPEDANCE	Nom. 50 $\Omega$
RADIATION	Omnidirectional
POLARISATION	Vertical
GAIN	2 dBi 0 dBd
BAND WIDTH	50 MHz
SWR	$\leq 1.5$
MAX. POWER	150 watts
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
MECHANICAL	
TEMP. RANGE	-35° C $\rightarrow$ +70° C
CONNECTOR	N-female
WIND SURFACE	0.0192 m <sup>2</sup>
WIND LOAD	24 N @ 160 km/h
COLOUR	Marine white
MATERIALS	Shroud: Polyurethane coated glassfiber Mounting bracket: Seawater resistant aluminium, epoxy-coated Clamps: Stainless steel
TOTAL HEIGHT	Approx. 680 mm
DIA. IN TOP END	12 mm
DIA. IN BOTTOM END	16 mm
WEIGHT	Approx. 650 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  $D_o$ , max. = 54 mm  
Mast tube  $D_o$ , min. = 16 mm
- ③ Mast tube  $D_o$ , max. = 54 mm  
Mast tube  $D_o$ , min. = 16 mm



### ORDERING DESIGNATIONS

TYPE NO.	FREQUENCY
CXL 70-1LW/l	380-430 MHz
CXL 70-1LW/h	420-470 MHz
CXL 70-1LW/hs	460-510 MHz

### PLEASE NOTE:

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

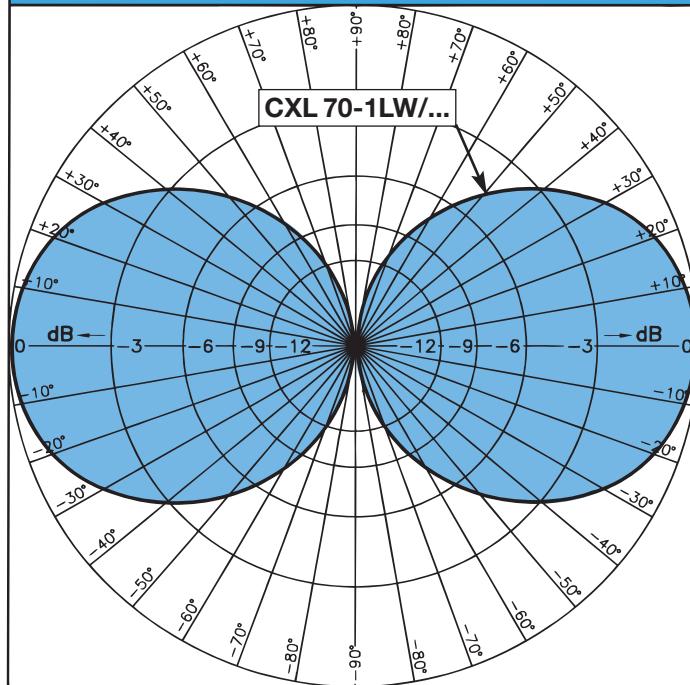
PROCOM A/S reserve the right to amend specifications without prior notice.

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## TYPICAL RADIATION PATTERN (E-PLANE)



## TYPICAL RADIATION PATTERN (H-PLANE)

