

# CXL 70-3LW/...

*Lightweight, Medium Duty, 3 dBd Base Station and Marine Antenna for the 450 MHz Band*



## DESCRIPTION:

- ★ CXL 70-3LW/... is a 3 dBd, vertically polarised, omnidirectional base station and marine antenna, which covers the UHF band in 4 models with up to 10 MHz overlap.
- ★ The antenna meets the demand for a medium duty, cost-effective antenna to be chosen, when the exceptional mechanical capabilities of our extremely rugged heavy-duty model CXL 70-3C/... are not needed.
- ★ The carefully designed radiating element is sealed in a high-quality, conical glassfiber tube with low wind-load, which will ensure undisturbed performance by corrosive environments.
- ★ 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 70-3LW/... is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.

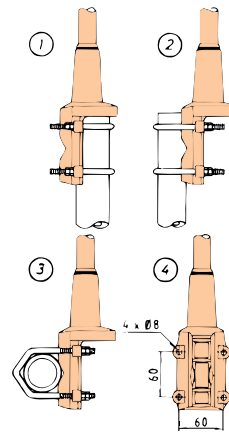
## SPECIFICATIONS:

ELECTRICAL	
MODEL	CXL 70-3LW/...
ANTENNA TYPE	Colinear, broad-banded
FREQUENCY	30 MHz wide frequency segments within 380–470 MHz. See model survey.
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARISATION	Vertical
GAIN	5 dBi 3 dBd
HALF POWER BEAMWIDTH	30°
BAND WIDTH	30 MHz
SWR	≤ 1.5
MAX. POWER	150 watts
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
MECHANICAL	
TEMP. RANGE	-30° C → +70° C
CONNECTOR	N-female
WIND SURFACE	0.026 m <sup>2</sup>
WIND LOAD	33 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. 1.4 m (dep. on freq.)
DIA. IN TOP END	16 mm
DIA. IN BOTTOM END	23 mm
WEIGHT	Approx. 1.3 kg
MOUNTING	On 16 to 54 mm dia. mast tube

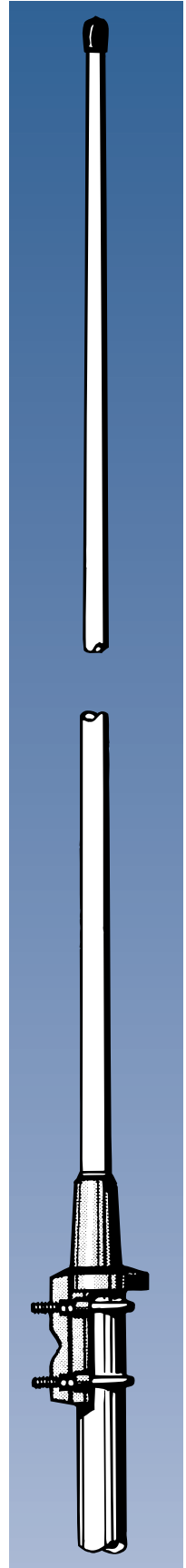
## ORDERING DESIGNATIONS

TYPE NO.	FREQUENCY
CXL 70-3LW/s	380–410 MHz
CXL 70-3LW/f	406–430 MHz
CXL 70-3LW/l	420–450 MHz
CXL 70-3LW/h	440–470 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



## 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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