

CXL 70-3LW/...

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

PROCOM

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 antenna is provided with our sturdy type "LW" mast mount, which is a lightweight, multi-purpose, epoxy-coated mounting bracket made of non-corrosive aluminium. The accompanying U-bolts and fittings are made of stainless steel.
- ★ 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.
- ★ 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.
- ★ 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.

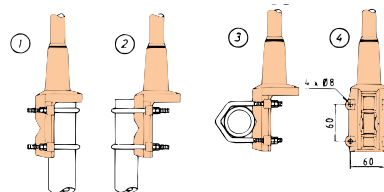
SPECIFICATIONS:

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°
BANDWIDTH	30 MHz
SWR	≤ 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	0.026 m ²
WIND LOAD	29 N (at 150 km/h)
COLOUR	Marine white
MATERIALS	Radome: Polyurethane coated fiberglass Mounting bracket: Seawater resistant aluminium, epoxy-coated
TOTAL HEIGHT	Approx. 1.4 m (dep. on freq.)
WEIGHT	Approx. 1.3 kg
MOUNTING	On 16 to 54 mm dia. mast tube

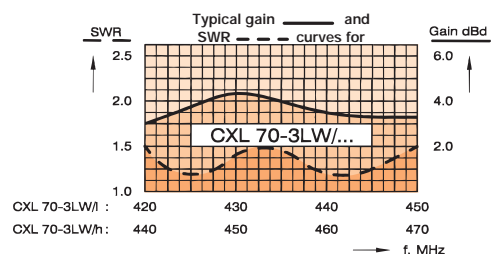
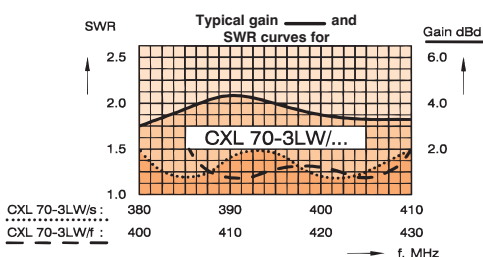
ORDERING DESIGNATIONS

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_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



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.

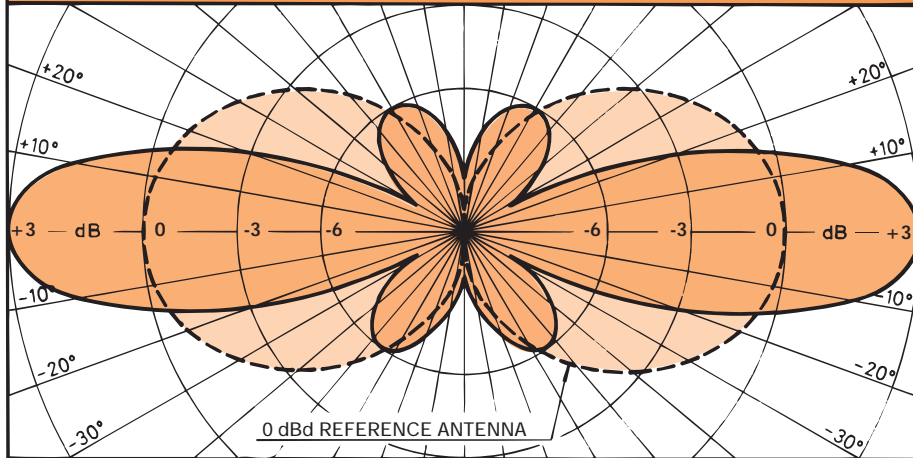
PROCOM A/S reserve the right to amend specifications without prior notice.

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TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

