

CXL 70-1LW/...

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

PROCOM

DESCRIPTION:

- ★ CXL 70-1LW/... is a 0 dBd, vertically polarised, omnidirectional base station and marine antenna which covers the 450 MHz band in two models.
- ★ The carefully designed, broadbanded $1/2 \lambda$ -dipole radiating element is made of brass tube and sealed in a white conical protection tube of fiberglass, which has very low wind load.
- ★ The antenna is provided with our sturdy type "LW" mast mount, which is a lightweight, multi-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.
- ★ To substantially reduce noise caused by atmospheric 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 base station and marine antenna.

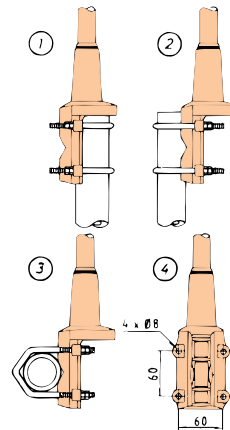
SPECIFICATIONS:

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
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARISATION	Vertical
GAIN	2 dBi 0 dBd
BANDWIDTH	50 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	0.0192 m ²
WIND LOAD	22 N (at 150 km/h)
COLOUR	Marine white
MATERIALS	Radome: Polyurethane coated fiberglass Mounting bracket: Seawater resistant aluminium, epoxy-coated
TOTAL HEIGHT	Approx. 0.68 m
WEIGHT	Approx. 0.65 kg
MOUNTING	On 16 to 54 mm dia. mast tube

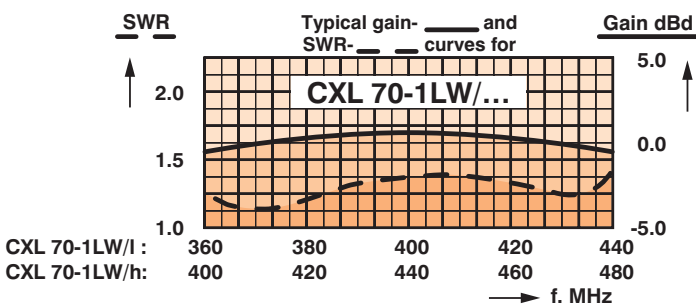
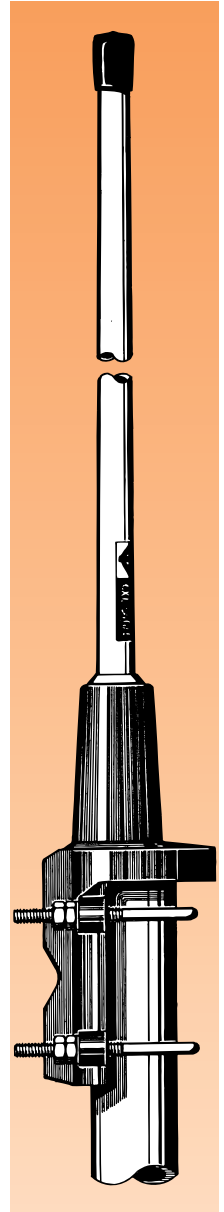
ORDERING DESIGNATIONS

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

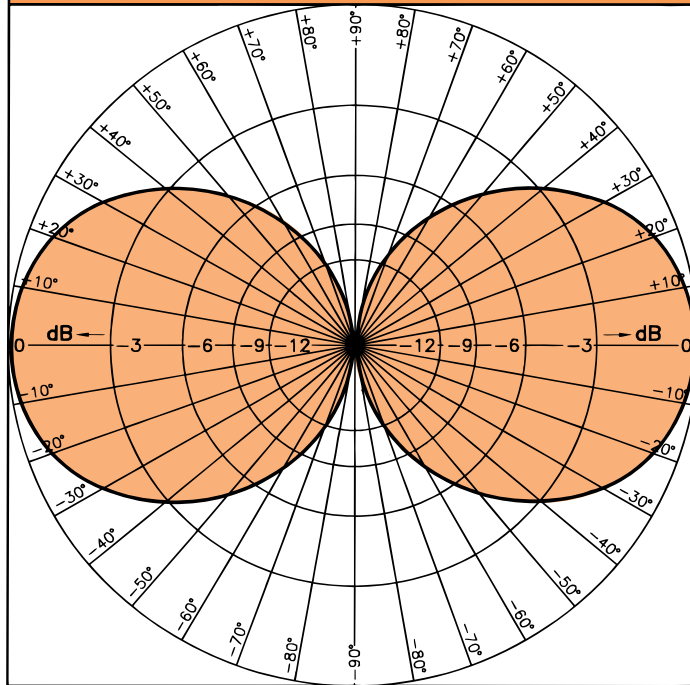
The antenna is delivered with a DC-connection between the antenna element and the mounting bracket (i.e. the mast tube). This feature is important when the antenna is used as a base station antenna.

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TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

