

CXL 70-1LW/...

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

DESCRIPTION

- CXL 70-1LW/... is a 0 dBd, vertically polarised, omnidirectional base station and marine 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 glass fibre 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 base station and marine antenna.



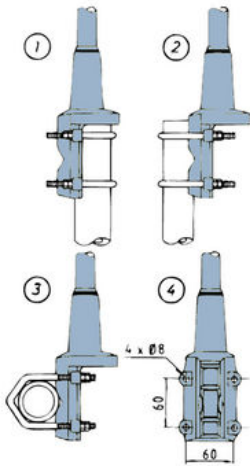
ORDERING DESIGNATIONS

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

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 Ω
RADIATION	Omnidirectional
POLARISATION	Vertical
GAIN	2 dBi 0 dBd
BAND WIDTH	50 MHz
SWR	≤ 1.5
MAX. POWER	200 W
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 ²
WIND LOAD	24 N @ 160 km/h
COLOUR	Marine white
MATERIALS	Shroud: Polyurethane coated glass fibre 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 tub

MULTI-PURPOSE MOUNTING BRACKET

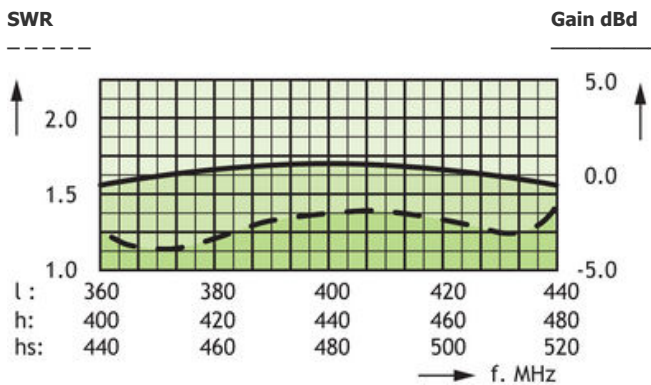


- ① Mast tube D_i , min = 30 mm
Mast tube D_o , max = 54 mm
- ② Mast tube D_o , max = 54 mm
Mast tube D_o , min = 16 mm
- ③ Mast tube D_o , max = 54 mm
Mast tube D_o , min = 16 mm

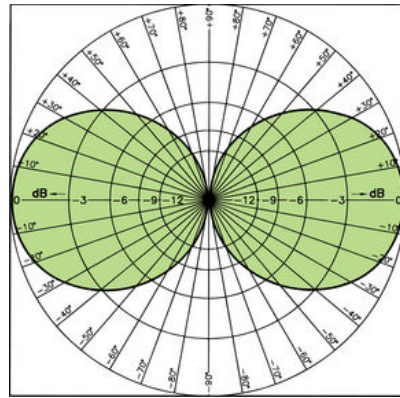
PLEASE NOTE

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

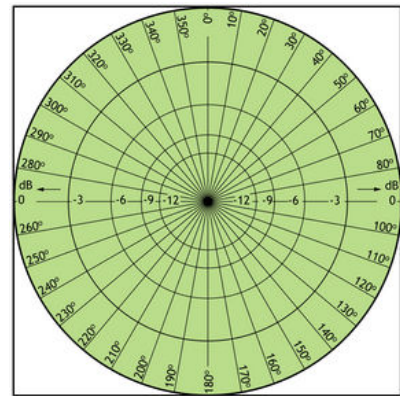
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



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

17/07/2009