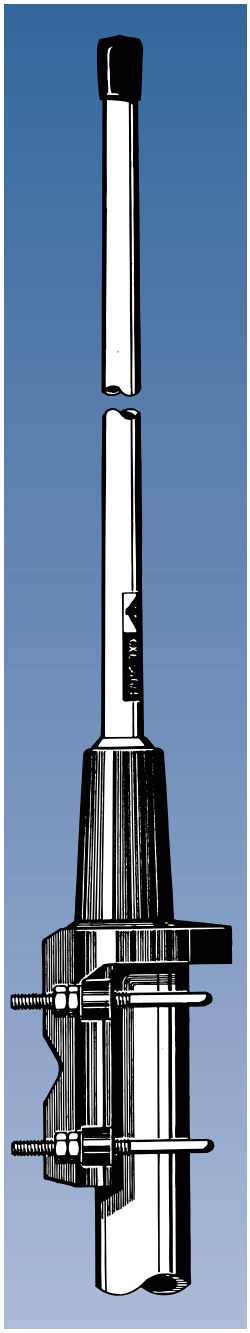
CXL 70-1LW/...

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

PROCOM

DESCRIPTION:

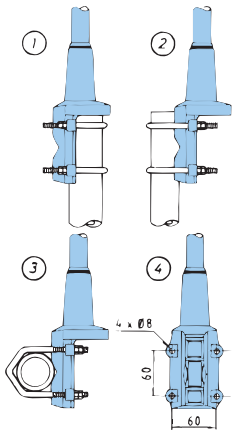
- ★ CXL 70-1LW/... is a 0 dBd, vertically polarised, omnidirectional marine and base station antenna which covers the 450 MHz band in two models.
- ★ The carefully designed, broadbanded 1/2 λ-dipole radiating element is made of brass tube and sealed in a high-quality conical glassfiber tube with low 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 λ 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 → +70° C
CONNECTOR	N-female
WIND SURFACE	0.0192 m²
WIND LOAD	22 N (at 150 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

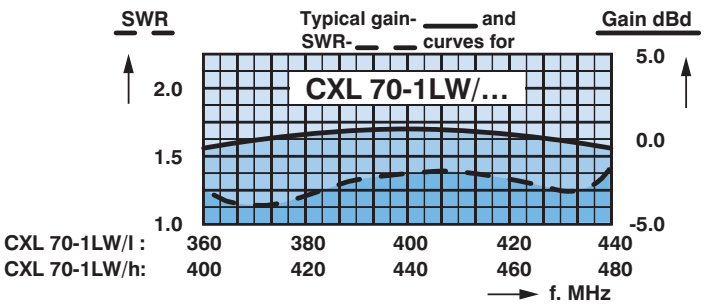
MULTI-PURPOSE MOUNTING BRACKET:



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

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.

02.2004

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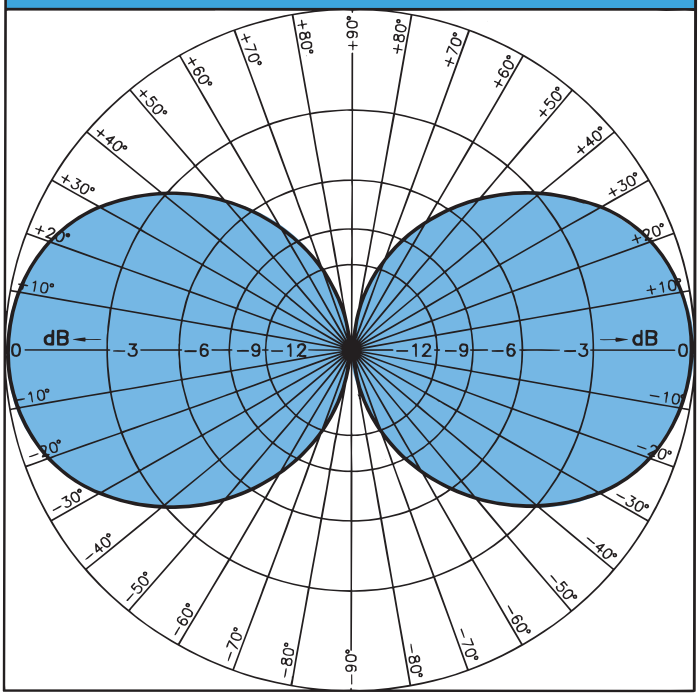
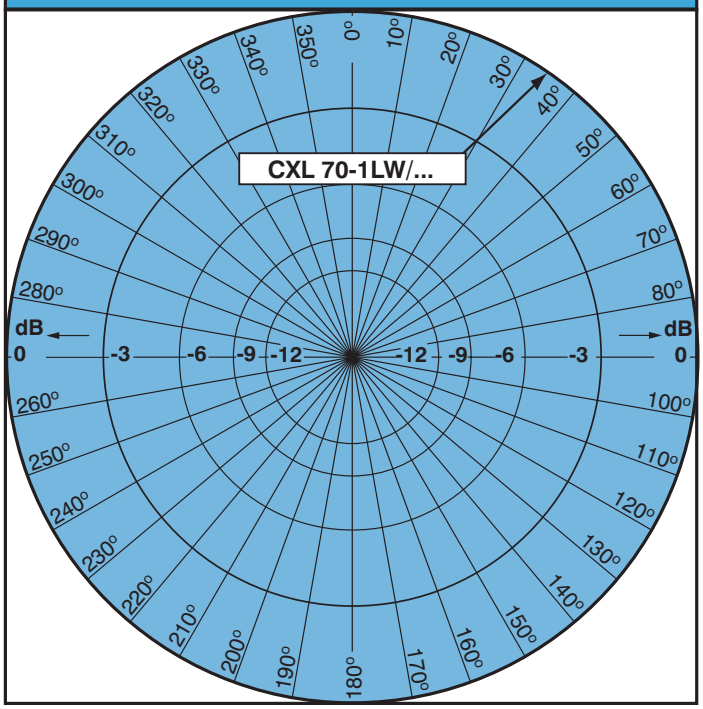
TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



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