G-CXL 70-1LW/...

Unity-Gain, Omnidirectional Base Station and Marine Antenna for the 450 MHz Band. Designed for defense units.

DESCRIPTION

- G-CXL 70-1LW/... is a 0 dBd, vertically polarized, omnidirectional base station and marine antenna which covers the 450 MHz band in three models.
- The carefully designed, broadbanded ½ λ-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 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.

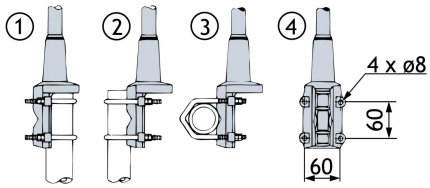
ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY
G-CXL 70-1LW/l	100000269	380 - 430 MHz
G-CXL 70-1LW/h	100000270	420 - 470 MHz
G-CXL 70-1LW/hs	100000271	460 - 510 MHz

SPECIFICATIONS

ELECTRICAL	
MODEL	G-CXL 70-1LW/...
ANTENNA TYPE	½ λ coaxial dipole, broad-banded
FREQUENCY	G-CXL 70-1LW/l : 380 - 430 MHz G-CXL 70-1LW/h : 420 - 470 MHz G-CXL 70-1LW/hs : 460 - 510 MHz
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARIZATION	Vertical
GAIN	2 dBi 0 dBd
BANDWIDTH	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 → +70°C
CONNECTOR	N-female
WIND SURFACE	0.0192 m²
WIND LOAD	24 N @ 160 km/h
COLOUR	Green
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 tube

MULTI-PURPOSE MOUNTING BRACKET



① Mast tube D_i. min. = 30 mm
Mast tube D_o. max. = 54 mm

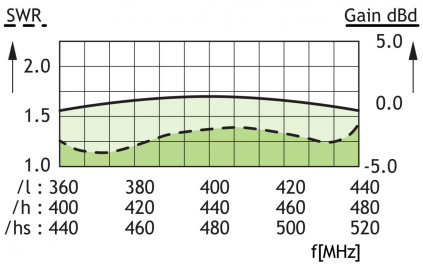
② Mast tube D_o. min. = 54 mm
Mast tube D_o. max. = 16 mm

③ Mast tube D_o. max. = 54 mm
Mast tube D_o. min. = 16 mm

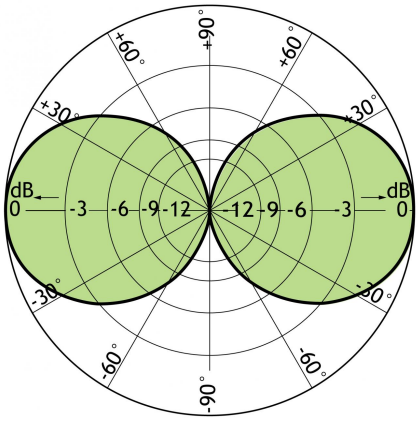
PLEASE NOTE

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

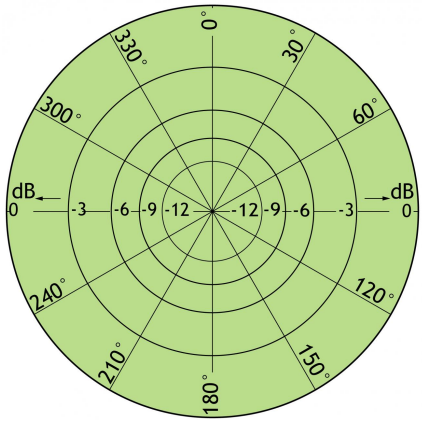
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



PROCOM France S.A.R.L. se réserve le droit d'améliorer les spécifications sans préavis.

06/10/11