

# G-CXL 2-1LW/...

Universal, Unity-Gain Base Station and Marine Antenna for the 160 MHz Band. Designed for defense units.

### DESCRIPTION

- This multi-purpose, omnidirectional, 0 dBd, rod-type base station and marine antenna covers the 160 MHz band in two models with 10 MHz overlap and can be used in a wide variety of applications.
- The broad-banded  $\frac{1}{2} \lambda$  dipole antenna element is sealed in a high-quality conical glass fibre tube with low wind-load, which will ensure undisturbed performance by corrosive environments.
- 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.
- G-CXL 2-1LW/... is DC-grounded to substantially reduce noise caused by atmospherical discharges and consequently shows a DC-short across the coaxial cable.



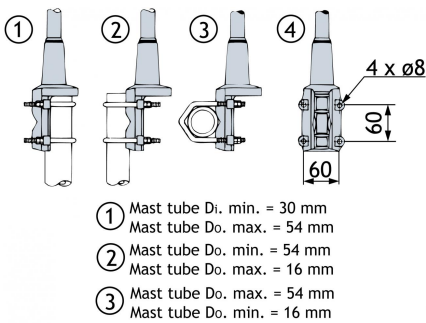
### ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY
G-CXL 2-1LW/l	110000185	144 - 165 MHz
G-CXL 2-1LW/h	110000186	155 - 175 MHz

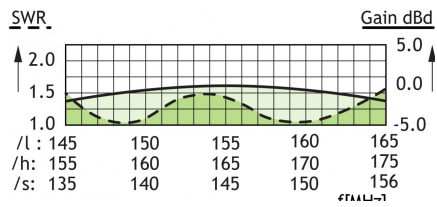
### SPECIFICATIONS

ELECTRICAL	
MODEL	G-CXL 2-1LW/...
ANTENNA TYPE	$\frac{1}{2} \lambda$ coaxial dipol, broad-banded
FREQUENCY	G-CXL 2-1LW/l: 144 - 165 MHz G-CXL 2-1LW/h: 155 - 175 MHz
IMPEDANCE	Nom. 50 $\Omega$
RADIATION	Omnidirectional
POLARISATION	Vertical
GAIN	2 dBi 0 dBd
BAND WIDTH	20 MHz
SWR	$\leq 1.5$
MAX. POWER	150 W
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
MECHANICAL	
TEMP. RANGE	-30°C $\rightarrow$ +70°C
CONNECTOR	N-female
WIND SURFACE	0.0172 m <sup>2</sup>
WIND LOAD	22 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. 1.26 m (Dep. on frequency)
DIA. IN TOP END	8 mm
DIA. IN BOTTOM END	16 mm
WEIGHT	Approx. 760 g
MOUNTING	On 16 to 54 mm dia. mast tube

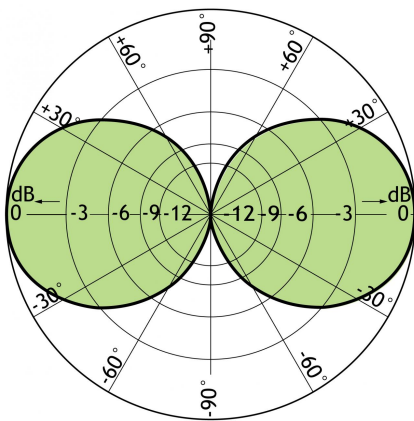
### MULTI-PURPOSE MOUNTING BRACKET



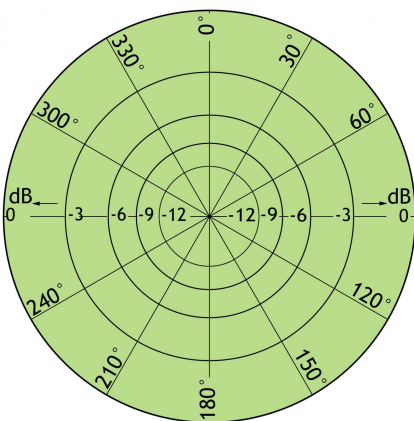
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



PROCOM A/S reserve the right to amend specifications without prior notice.  
28/09/11