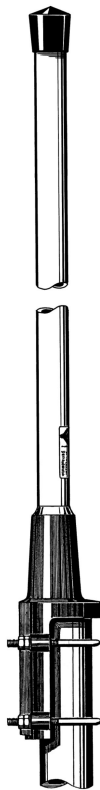


# CXL 108-185C

Unity Gain, Broad-Band Base Station and Marine Antenna for 108 - 185 MHz

## DESCRIPTION

- CXL 108-185C is a 0 dBi gain, omnidirectional base station and marine antenna.
- The antenna is extremely broad-banded and covers the complete band: 108 – 185 MHz.
- CXL 108-185C is designed for fixation on supporting tubes with outer diameter between 27 mm and 65 mm.
- The construction of the mount makes it possible to lead the cable either inside or along the outside of the mast tube.
- A glass fibre tube completely encloses the carefully designed radiating element to ensure long dependable service in all climates.
- Atmospheric discharges are immediately led to ground as all metal parts are DC-grounded (consequently, the antenna shows a DC-short across the coaxial cable).
- This antenna is used where reliability is of utmost importance. A long lifetime has been taken into consideration when designing this antenna – it is sturdy and strong.



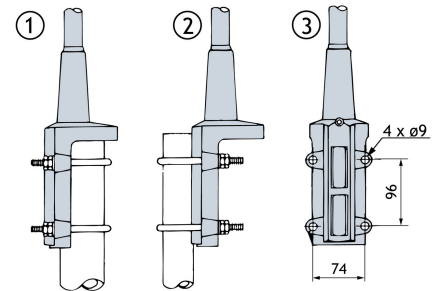
## ORDERING DESIGNATIONS

TYPE	PRODUCT NO.
CXL 108-185C	10000513

## SPECIFICATIONS

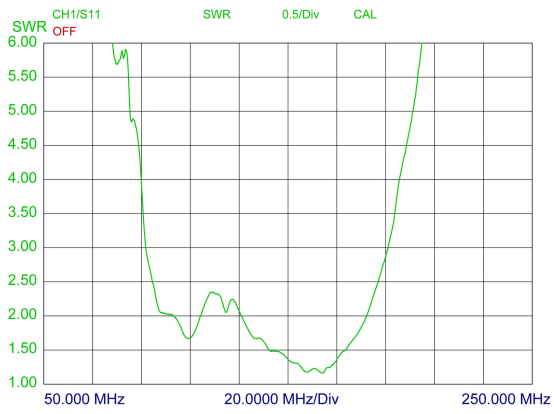
ELECTRICAL	
MODEL	CXL 108-185C
ANTENNA TYPE	Coaxial, broad-band dipole
FREQUENCY	Covering: 108 – 185 MHz
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARIZATION	Vertical
GAIN	0 dBi
BANDWIDTH	77 MHz
SWR	≤ 2.5
MAX. POWER	50 W continuous for 20 min. @ Duty cycle 50 %
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
MECHANICAL	
TEMP. RANGE	-30° C → +70° C
CONNECTOR	N-female
WIND SURFACE	0.062 m <sup>2</sup> / 0.67 feet <sup>2</sup>
WIND LOAD	73 N @ 160 km/h / 99.42 mph.
COLOUR	Marine white
MATERIALS	Radome : Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, epoxy-coated
TOTAL HEIGHT	Approx. 1.64 m / 64.57 in.
WEIGHT	Approx. 3.5 kg / 7.72 lb.
MOUNTING	On 27 - 65 mm / 1.06 - 2.56 in. dia. mast tube

## MULTI-PURPOSE MOUNTING BRACKET

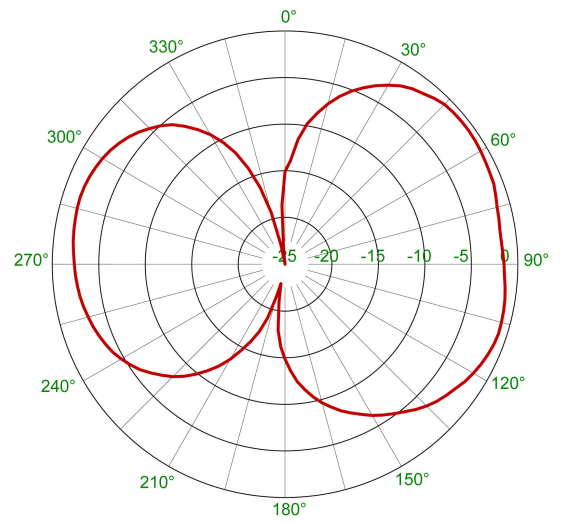


- ① Mast tube Di. min. = 32 mm  
Mast tube Do. max. = 65 mm
- ② Mast tube Do. min. = 27 mm  
Mast tube Do. max. = 48 mm

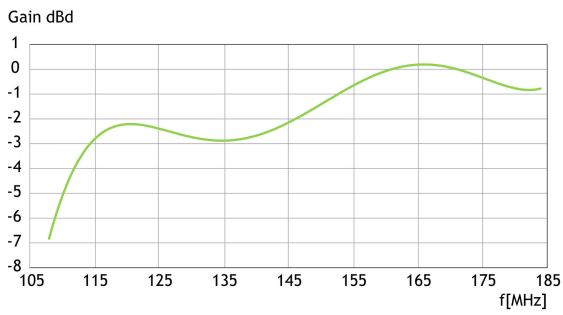
TYPICAL SWR CURVE



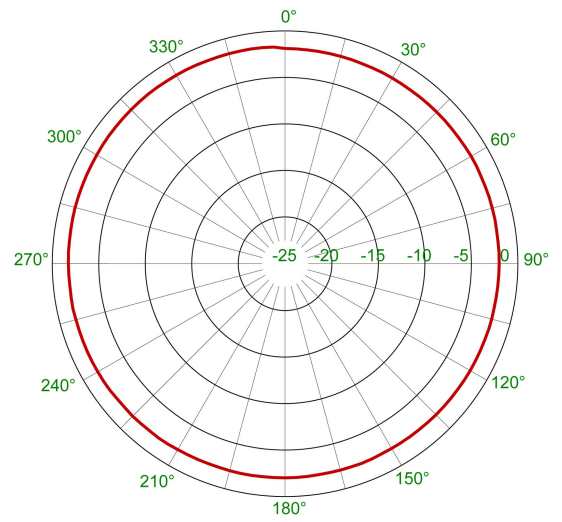
TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL GAIN CURVE



TYPICAL RADIATION PATTERN (H-PLANE)



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

23/05/14