

0 dBi, 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

Type	Product No.
CXL 108-185C	100000513

SPECIFICATIONS

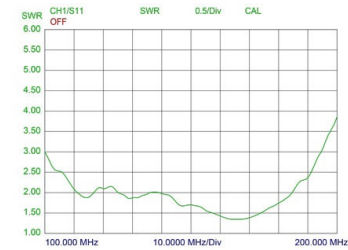
Electrical	
Model	CXL 108-185C
Frequency	Covering: 108 - 185 MHz
Antenna Type	Coaxial dipole, broad-banded
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
3 dB Beamwidth, E-Plane	80 °
Impedance	50 Ω
Gain	0 dBi (see gain curve)
VSWR	< 2.5:1
Maximum Input Power	40 W
Bandwidth	75 MHz
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	

Mechanical	
Wind Area	0.062 sq. m / 0.67 sq. ft
Connection(s)	N(f)
Materials	Radome : Polyurethane-coated glass fibre Mounting bracket : Seawater resistant aluminium, epoxy-coated
Colour	White (RAL 9003)
Height	1640 mm / 64.57 in.
Wind Load	73 N (160km/h)
Weight	3.5 kg / 7.72 lb
Mounting	On 27 - 65 mm dia. mast tube

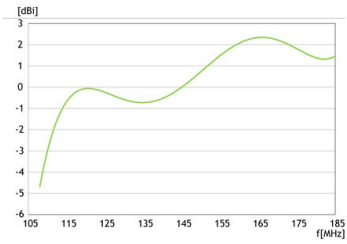
Environmental	
Operating Temperature Range	-30°C to +70°C
Survival Wind Speed	200 km/h
Ingress Protection	IP56

DIAGRAM

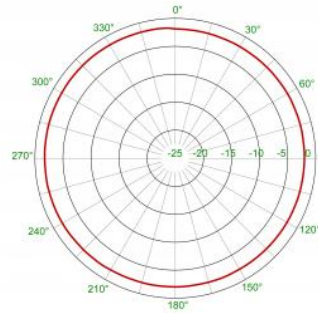
TYPICAL SWR CURVE



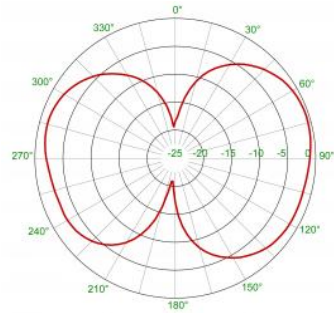
TYPICAL GAIN CURVE



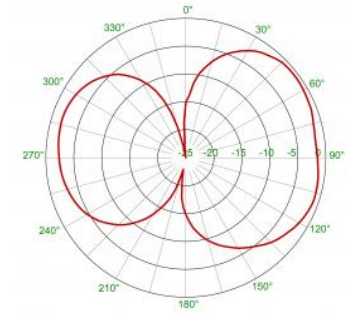
TYPICAL RADIATION PATTERN FOR 144 MHz (H-PLANE)



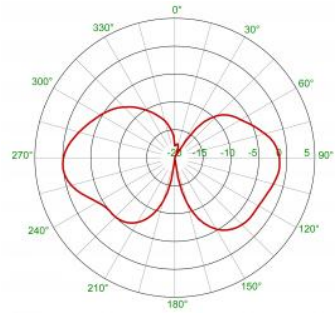
TYPICAL RADIATION PATTERN FOR 120 MHz (E-PLANE)



TYPICAL RADIATION PATTERN FOR 140 MHz (E-PLANE)



TYPICAL RADIATION PATTERN FOR 178 MHz (E-PLANE)



MULTI-PURPOSE MOUNTING BRACKET

