

Sturdy 3 dBd Gain Base Station Antenna for the air band

DESCRIPTION

- CXL 3-3C is a sturdy, 3 dBd, vertically polarized, omnidirectional base station antenna, which covers the air band.
- The antenna is provided with our “C” mast bracket, which is a universal, epoxy-coated mounting bracket made of non-corrosive aluminium. The accompanying U-bolts and fittings are made of stainless steel.
- The antenna can be mounted on 27 to 65 mm dia. mast tubes and it is possible to lead the cable either along the inside or on the outside of the mast tube.
- The phasing of the radiating elements is carefully adjusted to yield maximum gain in the horizontal plane, with the level of the sidelobes reduced to a minimum. Special emphasis has been laid on obtaining a large bandwidth both in relation to SWR and gain.
- The broad-banded antenna element is completely enclosed in a glass fibre shroud, which will ensure performance undisturbed by corrosive environments.
- 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.
- This antenna is constructed to ensure long dependable service in all climates.



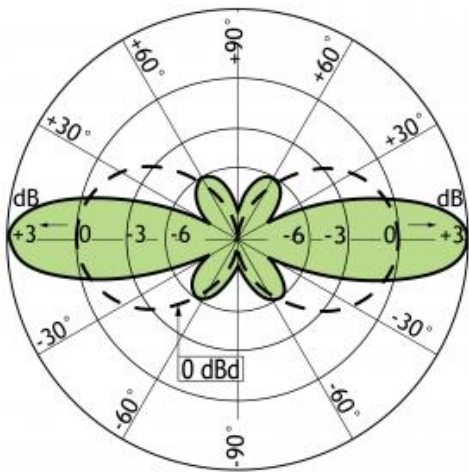
ORDERING

Type	Product No.
CXL 3-3C	100000079

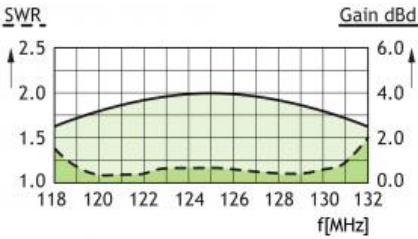
SPECIFICATIONS

Electrical	
Model	CXL 3-3C
Frequency	119 - 131 MHz
Antenna Type	Coaxial dipole, broad-banded
Max. Input Power	400 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	30 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	3 dBd (5.2 dBi)
VSWR	≤ 1.5 @ 119 - 131 MHz ( < 3 @ 118 - 137 MHz)
Bandwidth	12 MHz
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 030DE00
Mechanical	
Connection(s)	N(f)
Materials	Radome : Polyurethane-coated glass fibre Mounting bracket : Seawater resistant aluminium, epoxy-coated
Colour	White (RAL 9003)
Wind Area	0.165 sq. m / 1.78 sq. ft
Wind Load	209 N (160 km/h / 99 mph)
Height	Approx. 3750 mm / 147.64 in.
Weight	Approx. 4.5 kg / 9.92 lb
Mounting	On 27 - 65 mm / 1.06 - 2.56 in. dia. mast tube
Environmental	
Operating Temperature Range	-30°C to +70°C
Survival Wind Speed	200 km/h

TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (H-PLANE)



MULTI-PURPOSE MOUNTING BRACKET

