

## Sturdy, 3 dBd Gain Base Station Antenna for the 160 MHz Band

### DESCRIPTION

- CXL 2-3C/... is a sturdy, 3 dBd, vertically polarized, omnidirectional base station antenna, which covers the 160 MHz band in 4 models.
- 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 VSWR 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 atmospheric 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.



### SPECIFICATIONS

Electrical	
Model	CXL 2-3C/...
Frequency	137 - 175 MHz covered by 4 models. See model survey
Antenna Type	Collinear, broad-band
Max. Input Power	150 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	< 1.5:1
Bandwidth	13 MHz
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 015DE50

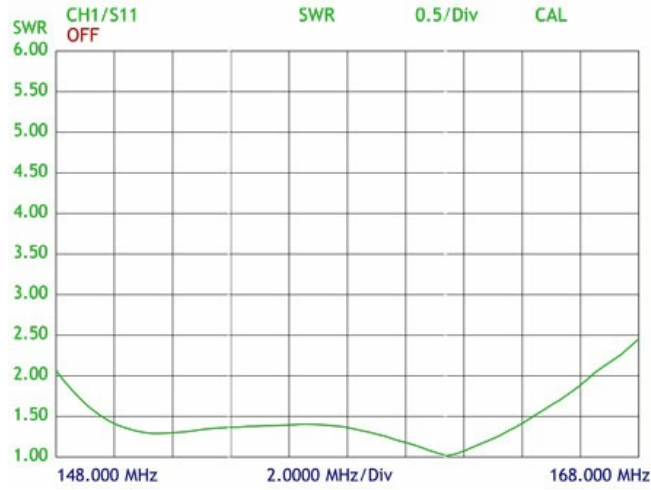
Mechanical	
Connection(s)	N(f)
Materials	Radome : Polyurethane-coated glass fibre Mounting bracket : Seawater resistant aluminium, epoxy-coated
Colour	White (RAL 9003)
Wind Area	0.143 sq. m / 1.54 sq. ft.
Wind Load	181 N (160 km/h)
Height	Approx. 2950 mm / 116.14 in.
Weight	Approx. 4.2 kg / 9.26 lb.
Mounting	On 27 - 65 mm / 1.02 - 2.56 in. dia. mast tube

Environmental	
Operating temperature range	-35 °C to +70 °C
Survival Wind Speed	260 km/h
Ingress Protection	IP56

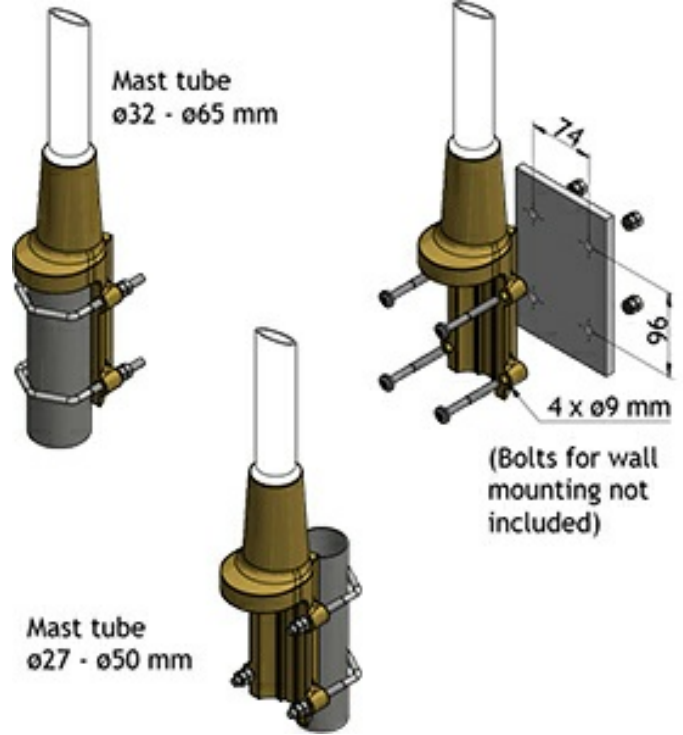
### ORDERING

Model	Product No.	Frequency
CXL 2-3C/s	100000096	137 - 150 MHz
CXL 2-3C/l	100000097	144 - 157 MHz
CXL 2-3C/m	100000098	153 - 166 MHz
CXL 2-3C/h	100000095	162 - 175 MHz

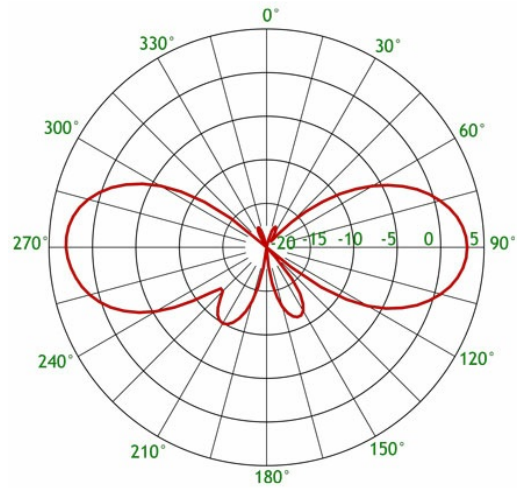
TYPICAL GAIN AND VSWR CURVE



MULTI-PURPOSE MOUNTING BRACKET



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

