

## Unity Gain, Broad-Band Base Station Antenna for 380 - 470 MHz

### DESCRIPTION

- > CXL 380-470C is a sturdy, 0 dBd, vertically polarized, omnidirectional base station antenna, which covers 380 - 470 MHz.
- > 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 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

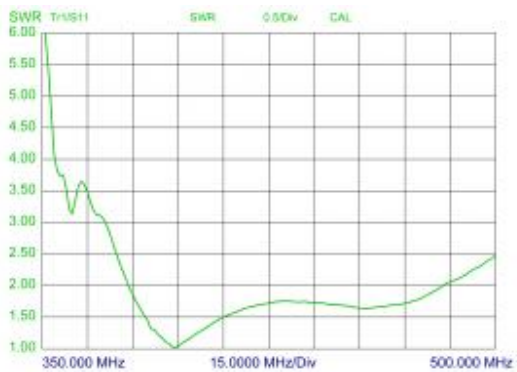
Electrical	
Model	CXL 380-470C
Frequency	380 - 470 MHz
Antenna Type	Coaxial dipole, broad-banded
Max. Input Power	150 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	60 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
VSWR	< 2.0:1
Bandwidth	90 MHz
Antistatic Protection	All 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	0.042 sq. m / 0.45 sq. ft
Wind Load	49 N (160 km/h)
Height	Approx. 1.1m / 43.31 in.
Weight	Approx. 2.4 kg / 5.29 lb.
Mounting	On 27 - 65 mm / 1.06 - 2.56 in. dia. mast tube

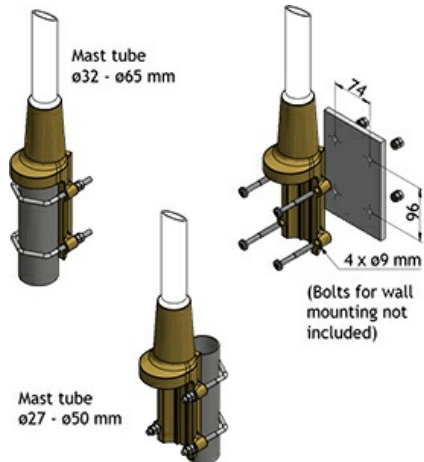
Environmental	
Operating temperature range	-30 °C to +70 °C
Survival Wind Speed	200 km/h

ORDERING	
Model	Product No.
CXL 380-470C	100000509

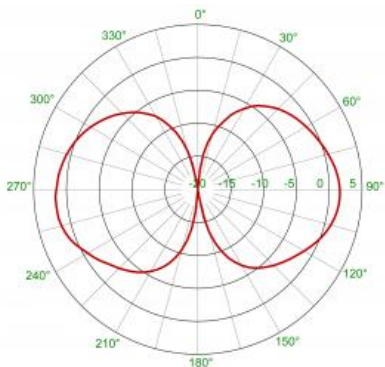
TYPICAL GAIN AND VSWR CURVE



MULTI-PURPOSE MOUNTING BRACKET



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

