

## CXL 2-3C/...

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

- 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.

#### DESCRIPTION

- 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 DESIGNATIONS

TYPE	FREQUENCY	PRODUCT NO.
CXL 2-3C/s	137 - 150 MHz	10000096
CXL 2-3C/l	144 - 157 MHz	10000097
CXL 2-3C/m	153 - 166 MHz	10000098
CXL 2-3C/h	162 - 175 MHz	10000095

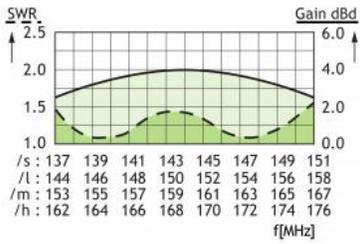


#### SPECIFICATIONS

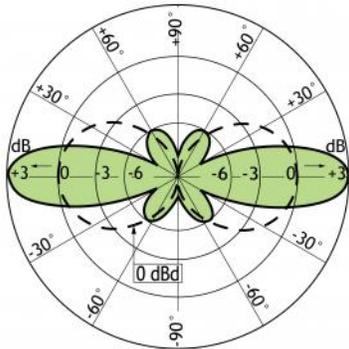
ELECTRICAL	
MODEL	CXL 2-3C/...
ANTENNA TYPE	Collinear, broad-banded
FREQUENCY	137 - 175 MHz covered by 4 models. See model survey
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARIZATION	Vertical
GAIN	5 dBi 3 dBd
HALF POWER BEAMWIDTH	30°
BANDWIDTH	13 MHz
SWR	≤ 1.5
MAX. POWER	150 W
ANTISTATIC PROTECTION	All metal parts DC-grounded (connector shows a DC-short)
HCM CODE	HCM000ND00, 015DE50

MECHANICAL	
CONNECTOR	N-female
WIND SURFACE	0.143 m <sup>2</sup>
WIND LOAD	181 N @ 160 km/h
COLOUR	Marine white
MATERIALS	Radome : Polyurethane-coated glass fibre Mounting bracket : Seawater resistant aluminium, epoxy-coated
TOTAL HEIGHT	Approx. 2.95 m (Dep. on frequency)
WEIGHT	Approx. 4.2 kg
MOUNTING	On 27 - 65 mm dia. mast tube

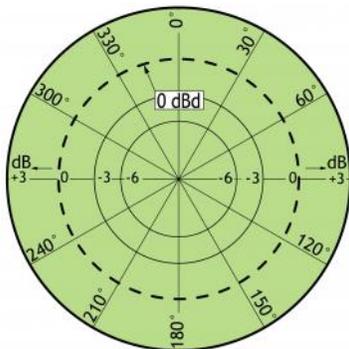
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



MULTI-PURPOSE MOUNTING BRACKET

