

## CXL 3-3C

### Sturdy 3 dBd Gain Base Station Antenna for the air Band

- 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.

### DESCRIPTION

- 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

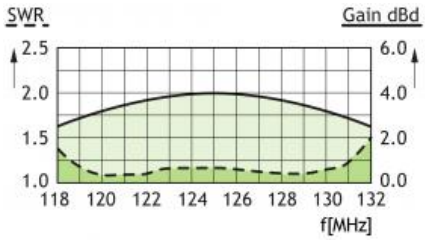
| TYPE     | PRODUCT NO. |
|----------|-------------|
| CXL 3-3C | 10000079    |



### SPECIFICATIONS

| ELECTRICAL            |                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------|
| MODEL                 | CXL 3-3C                                                                                                     |
| ANTENNA TYPE          | Coaxial, broad-band dipole                                                                                   |
| FREQUENCY             | 119 - 131 MHz                                                                                                |
| IMPEDANCE             | Nom. 50 Ω                                                                                                    |
| RADIATION             | Omnidirectional                                                                                              |
| POLARIZATION          | Vertical                                                                                                     |
| GAIN                  | 5 dBi 3 dBd                                                                                                  |
| HALF POWER BEAMWIDTH  | 30°                                                                                                          |
| BANDWIDTH             | 12 MHz                                                                                                       |
| SWR                   | ≤ 1.5 @ 119 - 131 MHz<br>( < 3 @ 118 - 137 MHz)                                                              |
| MAX. POWER            | 400 W                                                                                                        |
| ANTISTATIC PROTECTION | All metal parts DC-grounded<br>(Connector shows a DC-short)                                                  |
| HCM CODES             | HCM000ND00, 030DE00                                                                                          |
| MECHANICAL            |                                                                                                              |
| TEMP. RANGE           | -30° C → +70° C                                                                                              |
| CONNECTOR             | N-female                                                                                                     |
| WIND SURFACE          | 0.165 m <sup>2</sup>                                                                                         |
| WIND LOAD             | 209 N @ 160 km/h / 99 mph                                                                                    |
| MAX. WIND SPEED       | 200 km/h / 125 mph                                                                                           |
| COLOUR                | Marine white                                                                                                 |
| MATERIALS             | Radome : Polyurethane coated glass fibre<br>Mounting bracket : Seawater resistant aluminium,<br>epoxy-coated |
| TOTAL HEIGHT          | Approx. 3.75 m / 147.64 in.                                                                                  |
| WEIGHT                | Approx. 4.5 kg / 9.92 lb.                                                                                    |
| MOUNTING              | On 27 - 65 mm / 1.06 - 2.56 in. dia. mast tube                                                               |

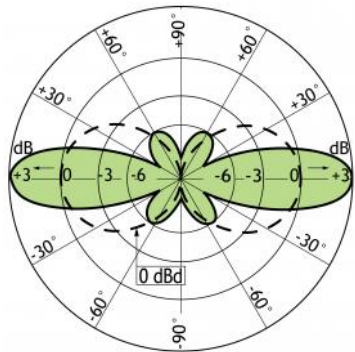
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (H-PLANE)



TYPICAL RADIATION PATTERN (E-PLANE)



MULTI-PURPOSE MOUNTING BRACKET

