

Unity Gain, Broad-banded, Omnidirectional Base Station  
Antenna for the 80 MHz Band

DESCRIPTION

- CXL 4-2C/... is a 0 dBd gain, omnidirectional rod-type base station antenna for the 80 MHz band.
- The 80 MHz-band is covered in 4 frequency segments: 66 - 80 MHz, 70 - 84 MHz, 74 - 88 MHz and 88 - 108 MHz.
- CXL 4-2C/... is designed for fixation on supporting tubes with outer diameter between 27 mm and 65 mm.
- The construction of the mount makes it possible to lead the cable either inside or along the outside of the mast tube.
- A glass fibre tube completely encloses the carefully designed radiating element to ensure long dependable service in all climates.
- Atmospheric discharges are immediately led to ground as all metal parts are DC-connected. Consequently, the antenna shows a DC-short across the coaxial cable.
- This antenna is used where reliability is of utmost importance. A long lifetime has been taken into consideration when designing this antenna – it is sturdy and strong.



ORDERING

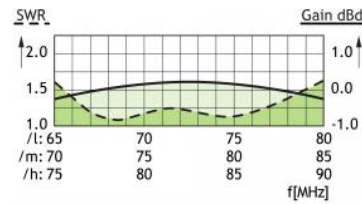
| Model       | Product No. | Frequency    |
|-------------|-------------|--------------|
| CXL 4-2C/l  | 100000059   | 66 - 80 MHz  |
| CXL 4-2C/m  | 100000058   | 70 - 84 MHz  |
| CXL 4-2C/h  | 100000057   | 74 - 88 MHz  |
| CXL 4-2C/hh | 100000470   | 88 - 108 MHz |

SPECIFICATIONS

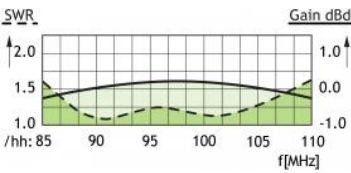
| Electrical              |                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------|
| Model                   | CXL 4-2C/...                                                                                                   |
| Frequency               | Models within 66 - 108 MHz (see model survey)                                                                  |
| Antenna Type            | Coaxial dipole, broad-banded                                                                                   |
| Max. Input Power        | 600 W                                                                                                          |
| Polarisation            | Vertical                                                                                                       |
| Pattern Type            | Omnidirectional                                                                                                |
| 3 dB Beamwidth, E-Plane | 80 °                                                                                                           |
| 3 dB Beamwidth, H-Plane | Omnidirectional                                                                                                |
| Impedance               | 50 Ω                                                                                                           |
| Gain                    | 0 dBd (2.2 dBi)                                                                                                |
| VSWR                    | < 1.6:1                                                                                                        |
| Bandwidth               | 14 - 20 MHz dep. of model                                                                                      |
| Antistatic Protection   | All metal parts DC-grounded (Connector shows a DC-short)                                                       |
| HCM Code(s)             | HCM000ND00, 030DE00                                                                                            |
| Mechanical              |                                                                                                                |
| Connection(s)           | N(f)                                                                                                           |
| Materials               | Radiating part: Glass fibre, polyurethane-lacquered<br>Mast clamp : Seawater-resistant aluminium, epoxy-coated |
| Colour                  | White (RAL 9003)                                                                                               |
| Wind Area               | 0.15 sq. m / 1.61 sq. ft                                                                                       |
| Wind Load               | 190 N (160km/h)                                                                                                |
| Height                  | 3100 mm / 122.05 in.                                                                                           |
| Weight                  | 4.5 kg / 9.92 lb                                                                                               |
| Mounting                | On 27 - 65 mm dia. mast tube                                                                                   |

DIAGRAM

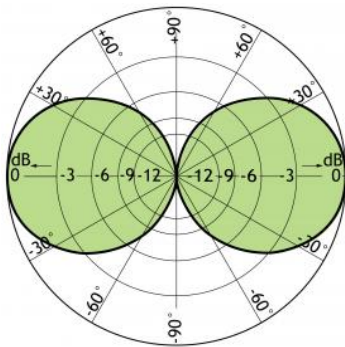
TYPICAL GAIN AND SWR CURVES



TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



MULTI-PURPOSE MOUNTING BRACKET

