



# CXL 4-2C/...

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.

## SPECIFICATION

|                         |                                               |
|-------------------------|-----------------------------------------------|
| 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                                         |
| 3 dB Beamwidth, H-Plane | Omnidirectional                               |

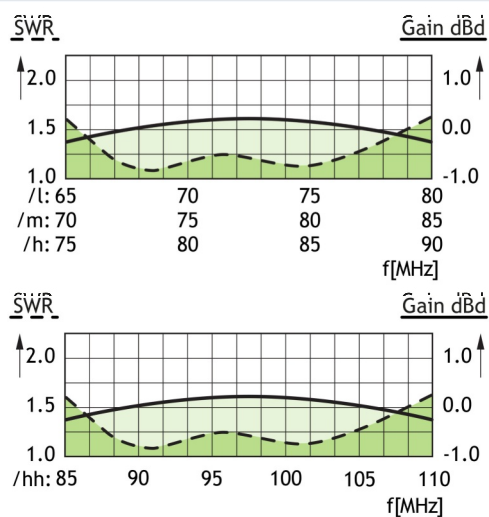
|                                |                                                                                                                 |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Polarisation</b>            | Vertical                                                                                                        |
| <b>Pattern Type</b>            | Omnidirectional                                                                                                 |
| <b>3 dB Beamwidth, E-Plane</b> | 80 °                                                                                                            |
| <b>Impedance</b>               | 50 Ω                                                                                                            |
| <b>Gain</b>                    | 0 dBd (2.2 dBi)                                                                                                 |
| <b>VSWR</b>                    | < 1.6:1                                                                                                         |
| <b>Bandwidth</b>               | 14 – 20 MHz dep. of model                                                                                       |
| <b>Antistatic Protection</b>   | All metal parts DC-grounded (Connector shows a DC-short)                                                        |
| <b>HCM Code(s)</b>             | HCM000ND00, 030DE00                                                                                             |
| <b>Environmental</b>           |                                                                                                                 |
| <b>Ingress Protection</b>      | IP56                                                                                                            |
| <b>Mechanical</b>              |                                                                                                                 |
| <b>Wind Area</b>               | 0.15 sq. m / 1.61 sq. ft                                                                                        |
| <b>Connection(s)</b>           | N(f)                                                                                                            |
| <b>Materials</b>               | Radiating part : Glass fibre, polyurethane-lacquered<br>Mast clamp : Seawater-resistant aluminium, epoxy-coated |
| <b>Colour</b>                  | White (RAL 9003)                                                                                                |
| <b>Historic Brand</b>          | Amphenol Procom                                                                                                 |
| <b>Height</b>                  | Approx. 3100 mm / 122.05 in.                                                                                    |
| <b>Wind Load</b>               | 190 N (160 km/h)                                                                                                |
| <b>Weight</b>                  | Approx. 4.5 kg / 9.92 lb.                                                                                       |
| <b>Mounting</b>                | On 27 – 65 mm dia. mast tube                                                                                    |

## ORDERING CODES

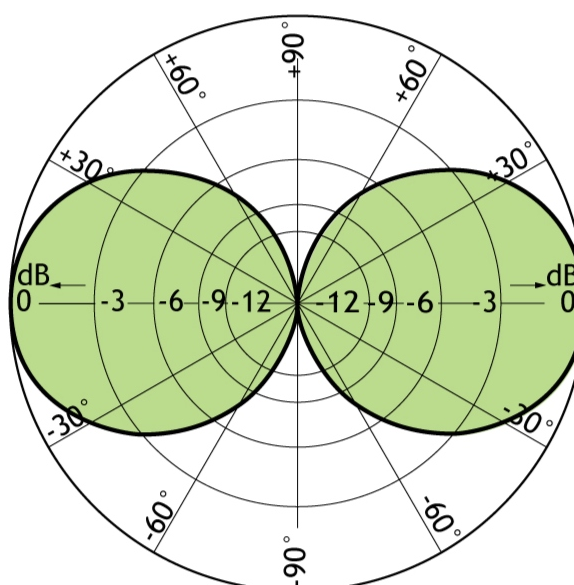
| Model       | Product No. | Frequency    |
|-------------|-------------|--------------|
| CXL 4-2C/l  | 100000059   | 66 – 80 MHz  |
| CXL 4-2C/m  | 100000058   | 70 – 84 MHz  |
| CXL 4-2C/h  | 100000057   | 74 – 88 MHz  |
| CXL 4-2C/hh | 100000470   | 88 – 108 MHz |

## ADDITIONAL INFORMATION

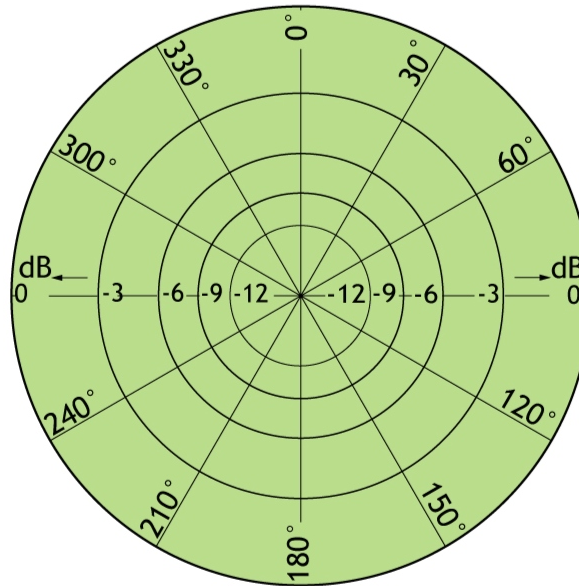
## Typical Gain and VSWR curve



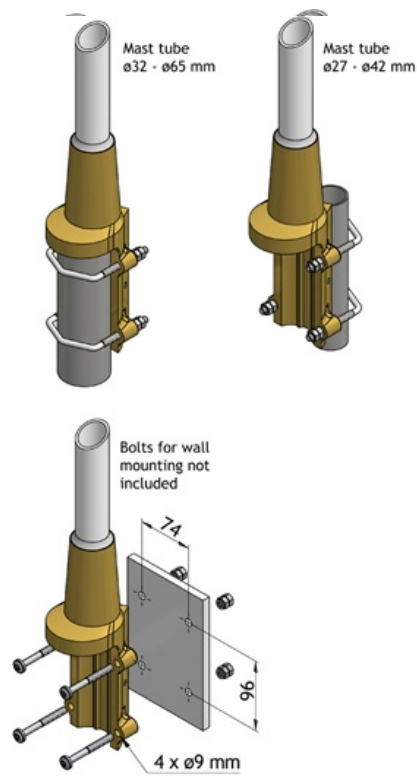
## Typical radiation pattern (E-PLANE)



## Typical radiation pattern (H-PLANE)

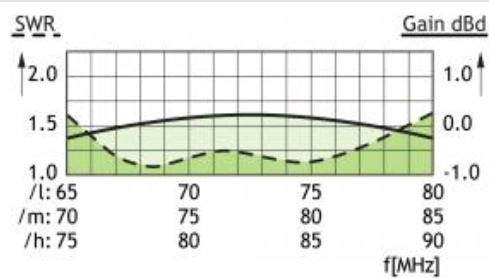


## Multi-Purpose Mounting Bracket

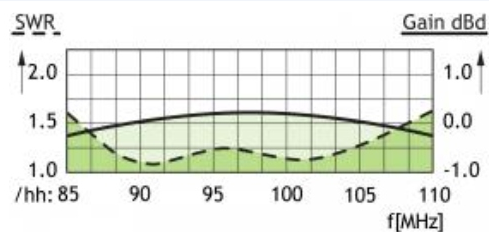


## DIAGRAMS

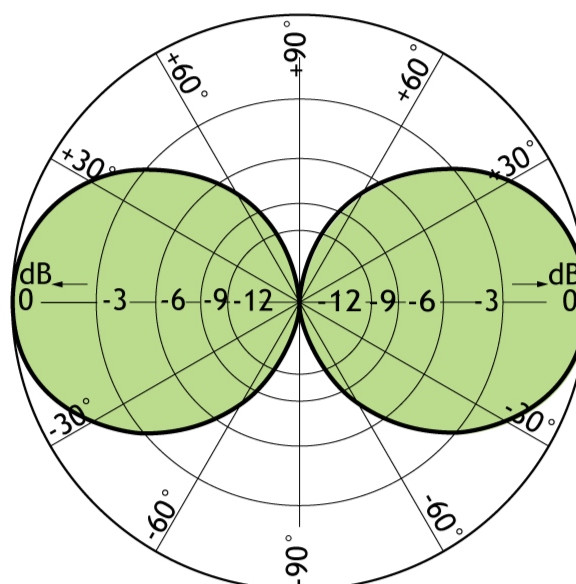
## TYPICAL GAIN AND SWR CURVES



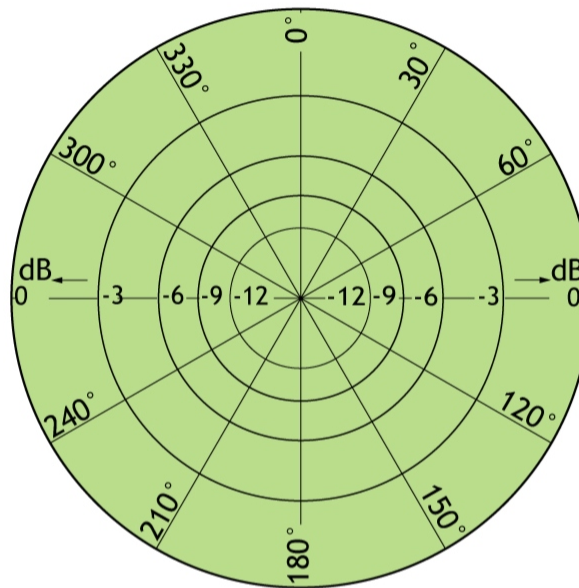
## TYPICAL GAIN AND SWR CURVES



## TYPICAL RADIATION PATTERN (E-PLANE)



## TYPICAL RADIATION PATTERN (H-PLANE)



## MULTI-PURPOSE MOUNTING BRACKET

