

Unity Gain, Broad-Banded Base Station Antenna for 175 - 400 MHz

DESCRIPTION

- > CXL 175-400C is a 0 dBd gain, omnidirectional base station antenna.
- > The antenna is extremely broad-banded and covers the complete band: 175 – 400 MHz.
- > CXL 175-400C 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-grounded (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

| Type | Product No. |
|--------------|-------------|
| CXL 175-400C | 100000086 |

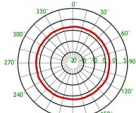
SPECIFICATIONS

| Electrical | |
|-------------------------|--|
| Model | CXL 175-400C |
| Frequency | Covering: 175 - 400 MHz |
| Antenna Type | Coaxial dipole, broad-banded |
| 3 dB Beamwidth, H-Plane | Omnidirectional |
| Polarisation | Vertical |
| 3 dB Beamwidth, E-Plane | 80 ° |
| Impedance | 50 Ω |
| Gain | 0 dBd (2.2 dBi) |
| SWR | < 2.5:1 |
| Maximum Input Power | 200 W |
| Bandwidth | 225 MHz |
| Antistatic Protection | All metal parts DC-grounded (Connector shows a DC-short) |
| HCM Code(s) | |

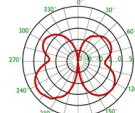
| Mechanical | |
|---------------|---|
| Wind Area | 0.056 sq. m / 0.60 sq. ft |
| Connection(s) | N(f) |
| Materials | Radome : Polyurethane-coated glass fibre Mounting bracket : Seawater resistant aluminium, epoxy-coated |
| Colour | White (RAL 9003) |
| Height | 1000 mm / 39.37 in. |
| Wind Load | 71 N (160km/h) |
| Weight | 3.0 kg / 6.61 lb |
| Mounting | On 27 - 65 mm dia. mast tube |

ADDITIONAL DATA

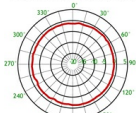
TYPICAL RADIATION PATTERN FOR 200 MHz (H-PLANE)



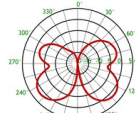
TYPICAL RADIATION PATTERN FOR 200 MHz (E-PLANE)



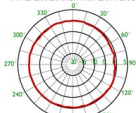
TYPICAL RADIATION PATTERN FOR 250 MHz (H-PLANE)



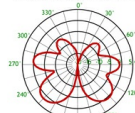
TYPICAL RADIATION PATTERN FOR 250 MHz (E-PLANE)



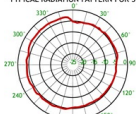
TYPICAL RADIATION PATTERN FOR 300 MHz (H-PLANE)



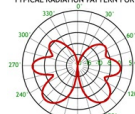
TYPICAL RADIATION PATTERN FOR 300 MHz (E-PLANE)



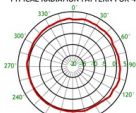
TYPICAL RADIATION PATTERN FOR 350 MHz (H-PLANE)



TYPICAL RADIATION PATTERN FOR 350 MHz (E-PLANE)



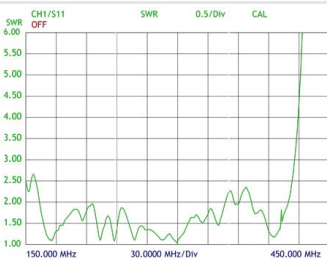
TYPICAL RADIATION PATTERN FOR 400 MHz (H-PLANE)



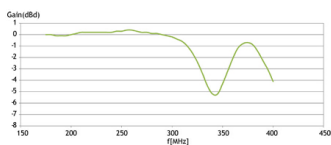
TYPICAL RADIATION PATTERN FOR 400 MHz (E-PLANE)



TYPICAL GAIN AND SWR CURVES



TYPICAL GAIN AND SWR CURVES



MULTI-PURPOSE MOUNTING BRACKET

