

## 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

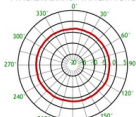
Electrical	
Model	CXL 175-400C
Frequency	Covering: 175 - 400 MHz
Antenna Type	Coaxial dipole, broad-banded
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
3 dB Beamwidth, E-Plane	80 °
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
VSWR	< 2.5:1
Maximum Input Power	200 W
Bandwidth	225 MHz
Antistatic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

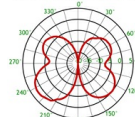
Mechanical	
Wind Area	0.056 sq. m / 0.60 sq. ft
Connection(s)	N(f)
Materials	Radome : Polyurethane-coated glass fibre Mounting bracket : Seawater resistant aluminium, epoxy-coated
Colour	White (RAL 9003)
Height	1000 mm / 39.37 in.
Wind Load	71 N (160km/h)
Weight	3.0 kg / 6.61 lb
Mounting	On 27 - 65 mm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

ADDITIONAL DATA

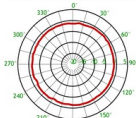
TYPICAL RADIATION PATTERN FOR 200 MHz (H-PLANE)



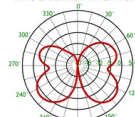
TYPICAL RADIATION PATTERN FOR 200 MHz (E-PLANE)



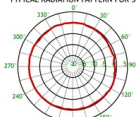
TYPICAL RADIATION PATTERN FOR 250 MHz (H-PLANE)



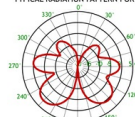
TYPICAL RADIATION PATTERN FOR 250 MHz (E-PLANE)



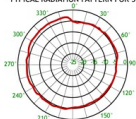
TYPICAL RADIATION PATTERN FOR 300 MHz (H-PLANE)



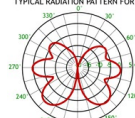
TYPICAL RADIATION PATTERN FOR 300 MHz (E-PLANE)



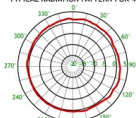
TYPICAL RADIATION PATTERN FOR 350 MHz (H-PLANE)



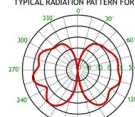
TYPICAL RADIATION PATTERN FOR 350 MHz (E-PLANE)



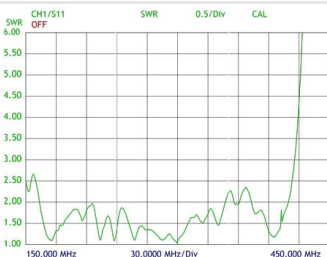
TYPICAL RADIATION PATTERN FOR 400 MHz (H-PLANE)



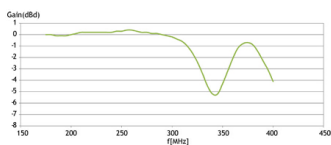
TYPICAL RADIATION PATTERN FOR 400 MHz (E-PLANE)



TYPICAL GAIN AND SWR CURVES



TYPICAL GAIN AND SWR CURVES



MULTI-PURPOSE MOUNTING BRACKET

