

Unity Gain Base Station and Marine 800 MHz Antenna for Mounting on Threaded 1"

DESCRIPTION

- > The CXL 800-1/... is a 0 dBd, vertically polarized, omnidirectional rod-type base station and marine antenna which covers the 800-870 MHz band.
- > The 1" revolving nut mounting system is standard throughout the base station or maritime sector, and several different mounting brackets are available, making it possible to install the antenna either on the masthead using FLG or SMR 2, side mounted on the mast (SMR 1) or mounted on a cross-beam (FLG). Also, the antenna can be mounted on deck or rooftop by means of the FLG.
- > CXL 800-1/... is especially suitable for use in connection with the LTE systems.
- > The higher the antenna is mounted, the better coverage. Avoid mounting the antenna parallel with or in the neighbourhood of other metal parts, such as masts, supporting wires etc., otherwise the SWR and the radiation pattern may be strongly influenced.
- > To substantially reduce noise caused by atmospheric discharges, all metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.
- > A conical glass fibre tube completely encloses the carefully designed radiating element to ensure long dependable service in all climates.



SPECIFICATIONS

Electrical	
Model	CXL 800-1/...
Frequency	800 - 870 MHz
Antenna Type	Coaxial dipole, broad-banded
Max. Input Power	100 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	80 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
VSWR	< 1.5:1
Bandwidth	70 MHz

Mechanical	
Connection(s)	N(f)
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Chromed brass
Colour	White (RAL 9003)
Wind Area	0.0070 sq. m / 0.08 sq. ft
Wind Load	9 N (160km/h)
Dia. At Top End	12 mm / 0.47 in.
Dia. At Bottom End	16 mm / 0.63 in.
Height	420 mm / 16.54 in.
Weight	0.35 kg / 0.77 lb
Mounting	On 1" RG (G1" - 11) threaded water pipe or on optional mounting brackets (see accessories)

Environmental	
Operating Temperature Range	-30°C to +70°C
Survival Wind Speed	200 km/h

ORDERING

Model	Product No.	Frequency
CXL 800-1/1	100000687	800 - 870 MHz

DIAGRAM

ACCESSORIES (TO BE ORDERED SEPARATELY)

