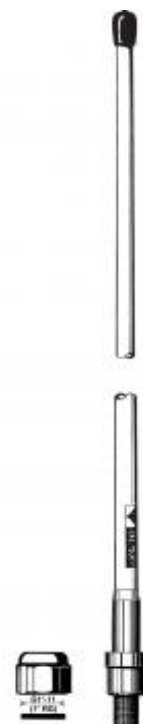


Customized

3 dBd Gain, Base Station and Marine 900 MHz Antenna for Mounting on Threaded 1" Water Pipe

DESCRIPTION

- CXL 900-3/I-Kam is a 3 dBd, vertically polarized, omnidirectional rod-type base station and marine antenna which covers the 900 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. (See accessories).
- CXL 900-3/I-Kam is especially suitable for use in connection with 900 MHz CELLULAR systems – making it possible to extend the normally land-based cellular telephone system for maritime mobile service as well.
- The phasing of the radiating elements is adjusted to yield maximum gain in the horizontal plane, with the level of the sidelobes reduced to a minimum.
- The higher the antenna is mounted, the better coverage. Avoid mounting the antenna parallel to or in the neighbourhood of other metal parts, such as masts, supporting wires etc., otherwise the VSWR and the radiation pattern may be strongly influenced.
- To substantially reduce noise caused by atmospherical 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

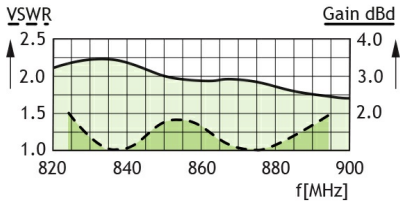
| Electrical | |
|-------------------------|-----------------------|
| Model | CXL 900-3/I-Kam |
| Frequency | 824 - 894 MHz |
| Antenna Type | Collinear, broad-band |
| Max. Input Power | 100 W |
| Polarisation | Vertical |
| 3 dB Beamwidth, E-Plane | 30 ° |
| 3 dB Beamwidth, H-Plane | Omnidirectional |
| Impedance | 50 Ω |
| Gain | 3 dBd (5.2 dBi) |
| VSWR | < 1.5:1 |
| Bandwidth | 70 MHz |
| HCM Code(s) | HCM000ND00, 015DE50 |

| Mechanical | |
|-----------------------------|---|
| Connection(s) | N(f) |
| Materials | Shroud: Polyurethane-coated glass fibre Mounting bracket: Chromed brass |
| Colour | White (RAL 9003) |
| Wind Area | 0.0096 sq. m / 0.10 sq. ft |
| Wind Load | 12 N (160km/h) |
| Dia. At Top End | 12 mm / 0.47 in. |
| Dia. At Bottom End | 16 mm / 0.63 in. |
| Height | Approx. 670 mm |
| Weight | Approx. 0.38 kg / 0.84 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 |
| Ingress Protection | IP66 |

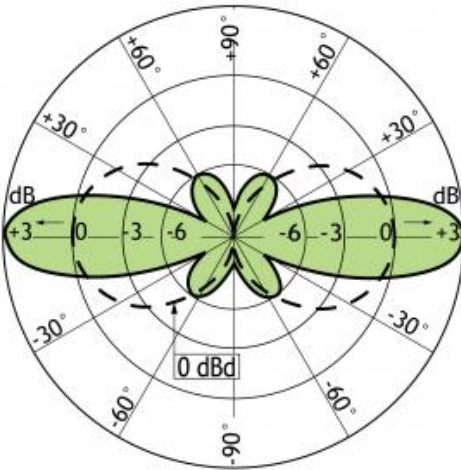
ORDERING

| Model | Product No. | Frequency |
|-----------------|-------------|---------------|
| CXL 900-3/I-Kam | 110000149 | 824 - 894 MHz |

TYPICAL GAIN AND VSWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



ACCESSORIES (TO BE ORDERED SEPARATELY)

| | | | |
|------------------------|--|--|------------------------------------|
| <p>FLG</p> | <p>SMR 1</p> | <p>SMR 2</p> | <p>YA-Bracket</p> |
| <p>LW-SS-1"</p> | <p>MariFix 1</p> <p>ALSO NEED ADT</p> | <p>MariFix 2</p> <p>ALSO NEED ADT</p> | <p>ADT</p> <p>1"-14 UNS</p> |