

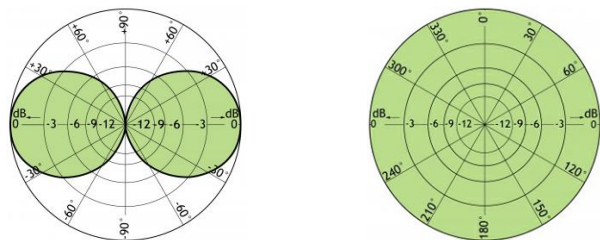
## Quadruple-Band Base Station and Marine Antenna for the 900 MHz, 1800 MHz, 1900 MHz and the 2000 MHz

### DESCRIPTION

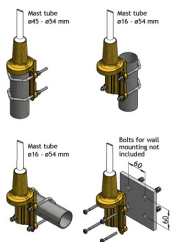
- Quadruple-Band base station and marine antenna – four bands with only one antenna.
- Covering both GSM/NMT-900, DCS-1800/PCN (GSM 900/1800), PCS-1900 and UMTS.
- Particularly suitable for use with triple-band mobile phones.
- Unity gain on all bands.
- Wide variety of accessory mounting brackets available.
- The carefully designed, broad-banded antenna element is sealed in a high-quality, conical glass fibre tube with low wind-load, which will ensure performance undisturbed by corrosive environments.
- Provided with the sturdy "LW" mast mount – a lightweight, multipurpose, epoxy-coated mounting bracket made of non-corrosive aluminium.
- The cable can be led either on the outside or along the inside of the mast tube.
- Large bandwidth with respect to both SWR and gain.
- 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.
- The CXL 900/1800/1900/UMTS/LW is a vibration-proof, lightweight, slimline, corrosion resistant, modern style base station and marine antenna.

### DIAGRAM

#### TYPICAL RADIATION PATTERN (E-PLANE) TYPICAL RADIATION PATTERN (H-PLANE)



### MULTI-PURPOSE MOUNTING BRACKET



### SPECIFICATIONS

| Electrical              |                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------|
| Model                   | CXL 900/1800/1900/UMTS/LW                                                                             |
| Frequency               | 800 - 960 MHz/1710 - 1880 MHz/<br>1850 - 1990 MHz/1900 - 2200 MHz<br>(GSM 900/DCS-1800/PCS-1900/UMTS) |
| Antenna Type            | Quadruple-Band base station and marine antenna                                                        |
| Max. Input Power        | 100 W                                                                                                 |
| Polarisation            | Vertical                                                                                              |
| 3 dB Beamwidth, E-Plane | 80 °                                                                                                  |
| 3 dB Beamwidth, H-Plane | Omnidirectional                                                                                       |
| Impedance               | 50 Ω                                                                                                  |
| Gain                    | -2.2 dBd (0 dBi)                                                                                      |
| VSWR                    | GSM @ = 2.0:1<br>DCS-1800 @ = 2.0:1<br>PCS-1900 @ = 3.0:1<br>UMTS @ = 3.0:1                           |
| Antistatic Protection   | All metal parts DC-grounded (Connector shows a DC-short)                                              |
| HCM Code(s)             |                                                                                                       |

| Mechanical         |                                                                                                                                    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Connection(s)      | N(f)                                                                                                                               |
| Materials          | Shroud: Polyurethane-coated glass fibre<br>Mounting bracket: Seawater resistant aluminium, epoxy-coated<br>Clamps: Stainless steel |
| Colour             | White (RAL 9003)                                                                                                                   |
| Wind Area          | 0.018 sq. m / 0.19 sq. ft                                                                                                          |
| Wind Load          | 23 N (160km/h)                                                                                                                     |
| Dia. At Top End    | 21 mm / 0.83 in.                                                                                                                   |
| Dia. At Bottom End | 23 mm / 0.91 in.                                                                                                                   |
| Height             | 500 mm / 19.69 in.                                                                                                                 |
| Weight             | 0.6 kg / 1.32 lb                                                                                                                   |
| Mounting           | On 16 to 54 mm dia. mast tube                                                                                                      |

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

### ORDERING

| Model                     | Product No. |
|---------------------------|-------------|
| CXL 900/1800/1900/UMTS/LW | 110000229   |