

Lightweight, 6 dBd, Omnidirectional Base Station and Marine Antenna for the 900 MHz Band

DESCRIPTION

- CXL 900-6LW-NB/868 MHz is a narrow-band 6 dBd, vertically polarized, omnidirectional base station and marine antenna.
- Provided with the sturdy "LW" mast mount – a lightweight, multipurpose, epoxy-coated mounting bracket made of non-corrosive aluminium.
- The accompanying U-bolts and fittings are made of stainless steel.
- To be mounted on vertical or horizontal mast tubes, 16 to 54 mm in outer diameter.
- The cable can be led either on the outside or along the inside of the mast tube.
- The carefully designed radiating element is sealed in a high-quality, conical glass fibre tube with low wind-load, ensuring undisturbed performance in all climates.
- 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.
- The CXL 900-6LW-NB/868 MHz is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.



ORDERING

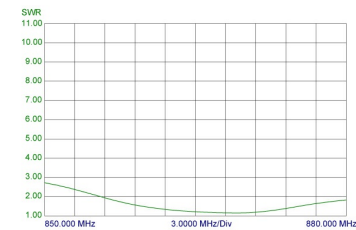
| Type                   | Product No. |
|------------------------|-------------|
| CXL 900-6LW-NB/868 MHz | 100000471   |

SPECIFICATIONS

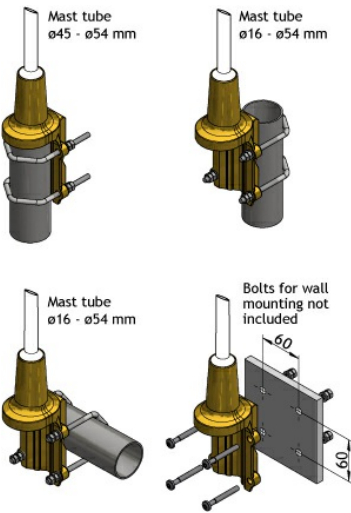
| Electrical                  |  |
|-----------------------------|--|
| Model                       | CXL 900-6LW-NB/868 MHz   |
| Frequency                   | 860 - 880 MHz  |
| Antenna Type                | Collinear, narrow-band   |
| 3 dB Beamwidth, H-Plane     | Omnidirectional  |
| Polarisation                | Vertical   |
| Pattern Type                | Omnidirectional  |
| 3 dB Beamwidth, E-Plane     | 14 °   |
| Impedance                   | 50 Ω   |
| Gain                        | 6 dBd (8.2 dBi)  |
| Maximum Input Power         | 150 W  |
| Bandwidth                   | 20 MHz   |
| Antistatic Protection       | All metal parts DC-grounded (Connector shows a DC-short)   |
| HCM Code(s)                 |  |
| Mechanical                  |  |
| Wind Area                   | 0.028 sq. m / 0.30 sq. ft  |
| 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)   |
| Height                      | 1850 mm / 72.83 in.  |
| Wind Load                   | 35 N (160km/h)   |
| Dia. At Top End             | 20 mm / 0.79 in.   |
| Weight                      | 1.1 kg / 2.43 lb   |
| Dia. At Bottom End          | 23 mm / 0.91 in.   |
| Mounting                    | On 16 to 54 mm dia. mast tube  |
| Environmental               |  |
| Operating Temperature Range | -30°C to +70°C   |

DIAGRAM

TYPICAL SWR CURVE



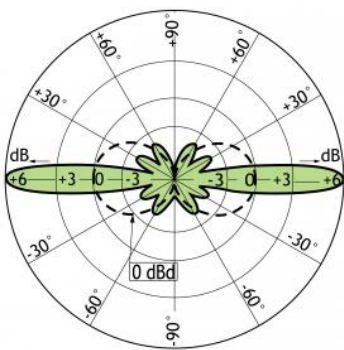
MULTI-PURPOSE MOUNTING BRACKET



PLEASE NOTE

The antenna is delivered with a DC-connection between the antenna element and the mounting bracket.

TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

