

## CXL 3-1LW

## Unity-Gain, Omnidirectional Base Station Antenna for the

- CXL 3-1LW is a 0 dBd, vertically polarized, omnidirectional base station antenna for the 118 - 137 MHz civil aircraft band.
- The antenna is a broad-banded ½ λ dipole design, and it is equipped with our type "LW" mast mount, which is a lightweight, multi-purpose, epoxy-coated aluminium mounting bracket with stainless steel fittings.

#### **DESCRIPTION**

- The antenna can be mounted on vertical or horizontal mast tubes, 16 to 54 mm in outer diameter. Further, the construction of the mount makes it possible to lead the cable either along the inside or on the outside of the mast tube.
- A conical glass fibre tube with very low wind-loading completely encloses the carefully designed radiating element to ensure long dependable service 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.
- CXL 3-1LW is a vibration-proof, lightweight, slim-line, corrosionresistant, modern style base station antenna.

#### ORDERING DESIGNATIONS

ТҮРЕ	PRODUCT NO.
CXL 3-1LW	100000075

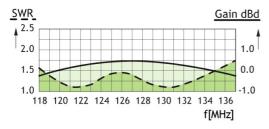


### **SPECIFICATIONS**

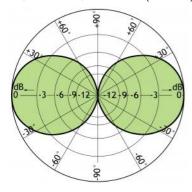
ELECTRICAL	
MODEL	CXL 3-1LW
ANTENNA TYPE	½ λ coaxial dipol, broad-banded
FREQUENCY	Covering: 118 - 137 MHz
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARIZATION	Vertical
GAIN	2 dBi 0 dBd
HALF POWER BEAMWIDTH	66°
BANDWIDTH	19 MHz
SWR	≤1.75
MAX. POWER	150 W
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
HCM CODE	HCM000ND00, 030DE00
MECHANICAL	
CONNECTOR	N-female
WIND SURFACE	0.0162 m <sup>2</sup>
WIND LOAD	25 N @ 175 km/h
MAX. WIND SPEED	Tested to 200 km/h
COLOUR	White (RAL 9003)
MATERIALS	Radome: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, epoxy-coated
TOTAL HEIGHT	Approx. 1.5 m
TOTAL HEIGHT WEIGHT	1 1 2
	Approx. 1.5 m
WEIGHT	Approx. 1.5 m Approx. 0.80 kg
WEIGHT MOUNTING	Approx. 1.5 m Approx. 0.80 kg



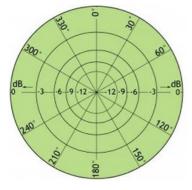
### TYPICAL GAIN AND SWR CURVES



# TYPICAL RADIATION PATTERN (E-PLANE)



# TYPICAL RADIATION PATTERN (H-PLANE)



### MULTI-PURPOSE MOUNTING BRACKET

