

Universal, 3 dBd Base Station and Marine Antenna for the 900 MHz Band

DESCRIPTION

- CXL 900-3LW/... is a 3 dBd, vertically polarized, omnidirectional rod-type base station and marine antenna which covers the 900 MHz band in four models.
- 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.
- 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.
- 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.
- Large bandwidth with respect to both SWR and gain.
- 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 900-3LW/... is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.

SPECIFICATIONS

Electrical		
Model	CXL 900-3LW/	
Frequency	Models within 824 - 960 MHz	
Antenna Type	Collinear, broad-band	
3 dB Beamwidth, H-Plane	Omnidirectional	
Polarisation	Vertical	
Pattern Type	Omnidirectional	
3 dB Beamwidth, E-Plane	30 °	
Impedance	50 Ω	
Gain	3 dBd (5.2 dBi)	
SWR	< 1.5:1	
Maximum Input Power	100 W	
Bandwidth	70 - 80 MHz	
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)	
HCM Code(s)		

Mechanical		
Wind Area	0.021 sq. m / 0.23 sq. ft	
Connection(s)	N(f)	
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, epoxy-coated Clamps: Stainless steel	
Colour	White (RAL 9003)	
Height	700 mm / 27.56 in.	
Wind Load	27 N (160km/h)	
Dia. At Top End	12 mm / 0.47 in.	
Weight	0.66 kg / 1.46 lb	
Dia. At Bottom End	16 mm / 0.63 in.	
Mounting	On 16 to 54 mm dia. mast tube	

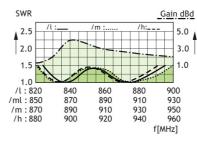
Environmental	
Operating Temperature Range	-30°C to +70°C

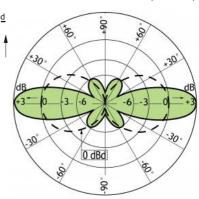


DIAGRAM

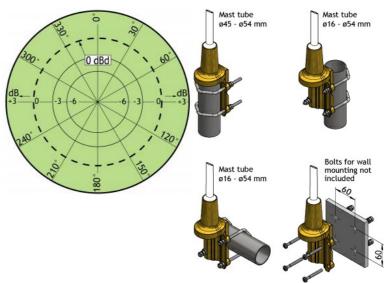
TYPICAL GAIN AND SWR CURVES

TYPICAL RADIATION PATTERN (E-PLANE)





TYPICAL RADIATION PATTERN (H-PLANE) MULTI-PURPOSE MOUNTING BRACKET





ORDERING

Туре	Product No.	Frequency
CXL 900-3LW/I	110000106	824 - 894 MHz
CXL 900-3LW/lm	110000377	860 - 925 MHz
CXL 900-3LW/m	110000107	870 - 950 MHz
CXL 900-3LW/h	110000105	890 - 960 MHz

