

Universal, Unity-Gain Base Station and Marine Antenna for the 160 MHz Band

DESCRIPTION

- This multi-purpose, omnidirectional, 0 dBd, rod-type base station and marine antenna covers the 160 MHz band in three models with 10 MHz overlap and can be used in a wide variety of applications.
- The broad-banded ½ λ dipole antenna element is sealed in a high-quality conical glass fibre tube with low wind-load, which will ensure undisturbed performance by corrosive environments.
- 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.
- CXL 2-1LW/... is DC-grounded to substantially reduce noise caused by atmospherical discharges and consequently shows a DC-short across the coaxial cable.
- The CXL 2-1LW/... is a vibration-proof, lightweight, slim-line, corrosion-resistant, modern style base station and marine antenna.
- > For extreme marine environments, it is recommended to use the CXL 150-1LW-SS-R/....

ORDERING

Туре	Product No.	Frequency
CXL 2-1LW/s	110000296	138 - 156 MHz
CXL 2-1LW/I	110000082	146 - 165 MHz
CXL 2-1LW/h	110000080	155 - 175 MHz



SPECIFICATIONS

Electrical		
Model	CXL 2-1LW/	
Frequency	138-175MHz (See ordering codes for sub-models)	
Antenna Type	Coaxial dipole, broad-banded	
3 dB Beamwidth, H-Plane	Omnidirectional	
Polarisation	Vertical	
3 dB Beamwidth, E-Plane	80 °	
Impedance	50 Ω	
Gain	0 dBd (2.2 dBi)	
VSWR	CXL 2-1/s: \leq 1.50 CXL 2-1/l: 146 - 163 MHz \leq 1.50 146 - 165 MHz \leq 1.75 CXL 2-1/h: 156 - 175 MHz \leq 1.50 155 - 175 MHz \leq 1.75	
Maximum Input Power	150 W	
Bandwidth	18 - 21 MHz depending on model	
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)	
HCM Code(s)		

Mechanical		
Wind Area	0.0172 sq. m / 0.19 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	1300 mm / 51.18 in.	
Wind Load	22 N (160km/h)	
Dia. At Top End	8 mm / 0.31 in.	
Weight	0.76 kg / 1.68 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	
Survival Wind Speed	200 km/h	
Ingress Protection	IP66	

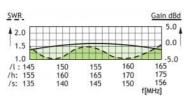


DIAGRAM

MULTI-PURPOSE MOUNTING BRACKET

Mast tube ø45 - ø54 mm

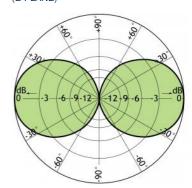
TYPICAL GAIN AND SWR CURVES

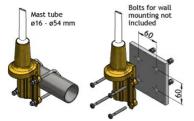


PLEASE NOTE

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

_x000d_TYPICAL RADIATION PATTERN (E-PLANE)





TYPICAL RADIATION PATTERN (H-PLANE)

