

CXL 4-1LW/...

Unity Gain, Broad-banded, Omnidirectional Base Station Antenna for the 80 MHz Band

- CXL 4-1LW/... is a 0 dBd gain, omnidirectional rod-type base station antenna for the 80 MHz band.
- The 80 MHz-band is covered in 3 frequency segments: 66 - 75 MHz, 72 - 82 MHz and 77 - 88 MHz.

DESCRIPTION

- The construction of the mount makes it possible to lead the cable either inside or along the outside of the mast tube.
- The antenna is provided with our sturdy type "LW" mast mount, which is a lightweight, multi-purpose, epoxy-coated mounting bracket made of non-corrosive aluminium. The accompanying U-bolts and fittings are made of stainless steel.
- 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.
- 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.
- 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 4-1LW/... is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station antenna.

ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY
CXL 4-1LW/l	100000054	66 - 75 MHz
CXL 4-1LW/m	100000055	72 - 82 MHz
CXL 4-1LW/h	100000056	77 - 88 MHz

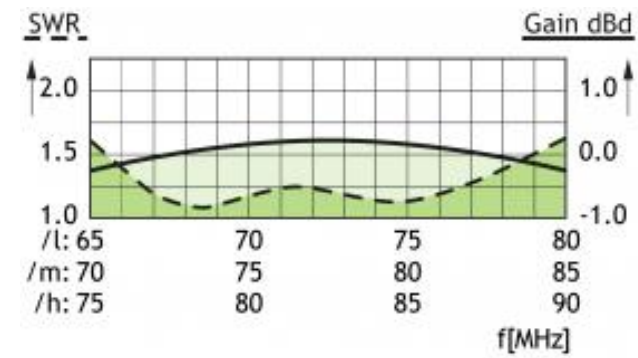


SPECIFICATIONS

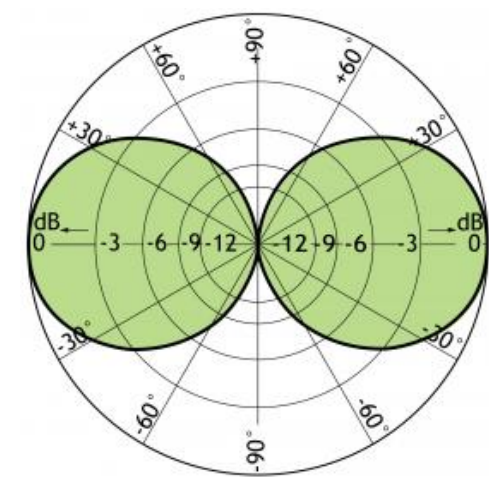
ELECTRICAL	
MODEL	CXL 4-1LW/...
ANTENNA TYPE	Coaxial, broad-band dipole
FREQUENCY	Models within 66 - 88 MHz (see model survey)
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARIZATION	Vertical
GAIN	2 dBi 0 dBd
BANDWIDTH	9 - 11 MHz
SWR	≤ 1.8
MAX. POWER	150 W
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
HCM CODE	HCM000ND00, 0030DE00

MECHANICAL	
CONNECTOR	N-female
WIND SURFACE	0.056 m ²
WIND LOAD	71 N @ 160 km/h
COLOUR	White (RAL 9003)
MATERIALS	Radiating part: Glass fibre, polyurethane-lacquered Mast clamp : Seawater-resistant aluminium, epoxy-coated
TOTAL HEIGHT	Approx. 2.3 m
WEIGHT	Approx. 1.5 kg
MOUNTING	On 16 - 54 mm dia. mast tube

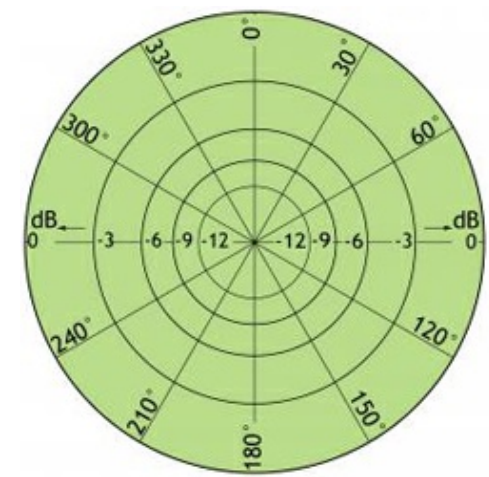
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



MULTI-PURPOSE MOUNTING BRACKET

