

CXL 4-1LW/...

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

PROCOM

DESCRIPTION:

- ★ 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.
- ★ 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 glassfiber tube with low wind-load, which will ensure undisturbed performance by corrosive environments.
- ★ To substantially reduce noise caused by atmospheric 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.

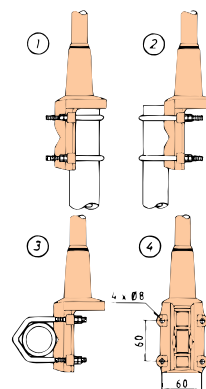
SPECIFICATIONS:

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
POLARISATION	Vertical
GAIN	2 dBi 0 dBd
BANDWIDTH	9-11 MHz
SWR	≤ 1.6
MAX. POWER	150 watt
ANTISTATIC PROTECTION	All metal parts DC-grounded (connector shows a DC-short)
MECHANICAL	
CONNECTOR	N-female
WIND SURFACE	0.056 m ²
WIND LOAD	62 N (at 150 km/h)
COLOUR	Marine white
MATERIALS	Radiating part: Fiberglass, 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

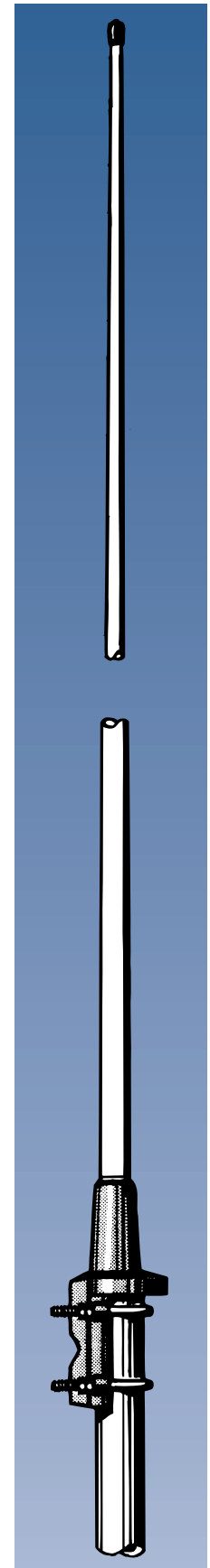
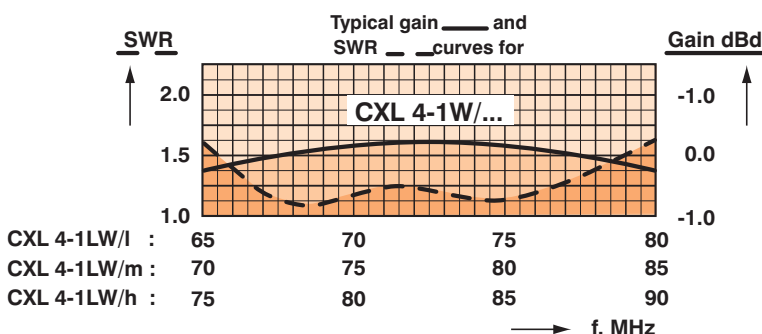
ORDERING DESIGNATIONS

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

MULTI-PURPOSE MOUNTING BRACKET:



- ① Mast tube D_i min = 30 mm
Mast tube D_o max = 54 mm
- ② Mast tube D_o max = 54 mm
Mast tube D_o min = 16 mm
- ③ Mast tube D_o max = 54 mm
Mast tube D_o min = 16 mm

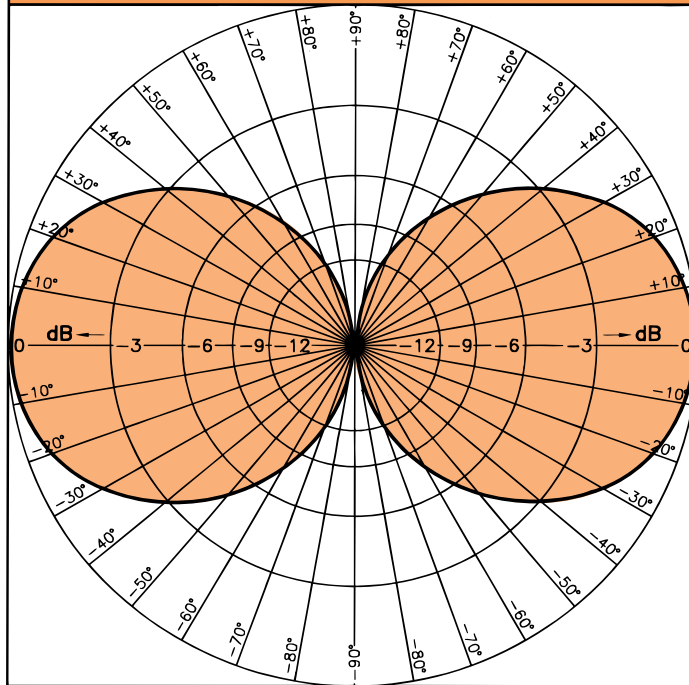


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TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

