

CXL 70-5C/...

Collinear, 5 dBd Base Station and Marine Antenna for the 450 MHz Band

- CXL 70-5C/... is a 5 dBd, vertically polarized, omnidirectional base station and marine antenna, which covers within 350 - 620 MHz band in 9 models.
- The antenna is provided with our "C" universal fixation bracket made of epoxy-coated, seawater resistant aluminium. The accompanying U-bolts and fittings are made of stainless steel.



DESCRIPTION

- CXL 70-5C/... can be mounted on 27 to 65 mm dia. mast tubes and it is possible to lead the cable either along the inside or on the outside of the mast tube.
- The carefully designed radiating 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 exceptional mechanical capabilities of this antenna ensure long dependable service in all environments.

ORDERING DESIGNATIONS

TYPE	FREQUENCY	PRODUCT NO.
CXL 70-5C/ls	350 - 370 MHz	100000593
CXL 70-5C/ss	360 - 390 MHz	100000594
CXL 70-5C/s	380 - 410 MHz	100000120
CXL 70-5C/f	406 - 430 MHz	100000115
CXL 70-5C/l	420 - 450 MHz	100000118
CXL 70-5C/h	440 - 470 MHz	100000117
CXL 70-5C/hh	470 - 490 MHz	100000595
CXL 70-5C/vh	490 - 520 MHz	100000596
CXL 70-5C/uh	590 - 614 MHz	100000597

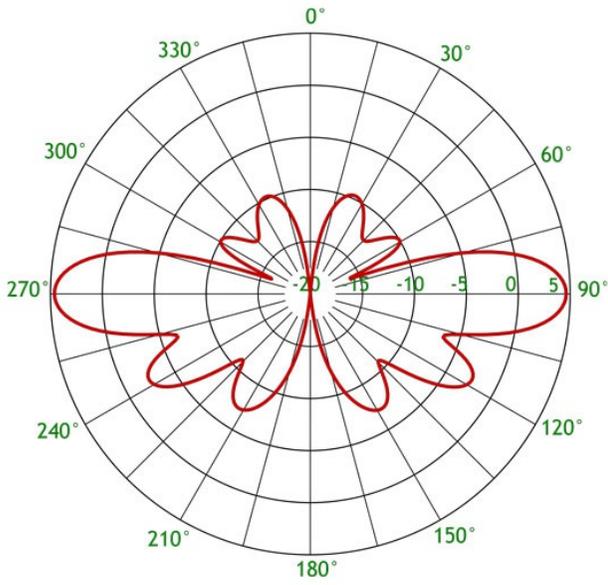
SPECIFICATIONS

ELECTRICAL			
MODEL	CXL 70-5C/...		
ANTENNA TYPE	Collinear, broad-banded		
FREQUENCY	30 MHz wide frequency segments within 350 - 620 MHz.		
IMPEDANCE	Nom. 50 Ω		
RADIATION	Omnidirectional		
POLARIZATION	Vertical		
GAIN	7 dBi 5 dBd		
HALF POWER BEAMWIDTH	18°		
BANDWIDTH	20 - 30 MHz (Dependent on model. See ordering designations)		
SWR	Type	SWR < 1.5	SWR < 2.0
	/ls	350-370 MHz	
	/ss	360-380 MHz	380-390 MHz
	/s	380-400 MHz	400-410 MHz
	/f	406-426 MHz	426-430 MHz
	/l	420-440 MHz	440-450 MHz
	/h	440-460 MHz	460-470 MHz
	/hh	470-490 MHz	
	/vh	490-510 MHz	510-520 MHz
/uh	590-614 MHz		
MAX. POWER	150 W		
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short) Publish		
HCM CODE	HCM000ND00, 009DE50		

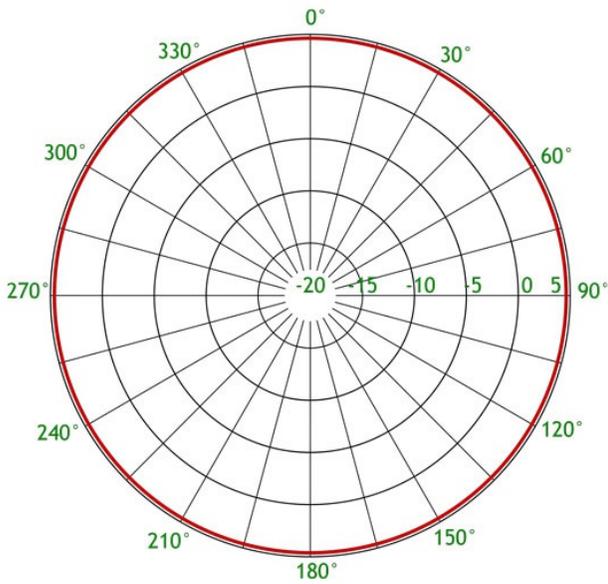
MECHANICAL	
CONNECTOR	N-female
WIND SURFACE	0.045 m ² / 0.48 ft ²
WIND LOAD	57 N @ 160 km/h / 99.42 mph.
MAX. WIND SURVIVAL SPEED	200 km/h
COLOUR	White (RAL 9003)
MATERIALS	Shroud: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, epoxy-coated. Clamps: Stainless steel
TOTAL HEIGHT	Approx. 2.2 m / 86.61 in. (dep. on freq.)
DIA. IN TOP END	13 mm / 0.51 in.
DIA. IN BOTTOM END	25 mm / 0.98 in.
WEIGHT	Approx. 2.8 kg / 6.17 lb.
MOUNTING	On 27 - 65 mm / 1.06 - 2.56 in. dia. mast tube

ENVIRONMENTAL	
TEMP. RANGE	-35°C → +70°C
IP RATING	IP 66

TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



MULTI-PURPOSE MOUNTING BRACKET

