



CXL 70-5C/...

COLLINEAR, 5 DBD BASE STATION AND MARINE ANTENNA FOR THE 450 MHz BAND

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





CXL 70-5C/...

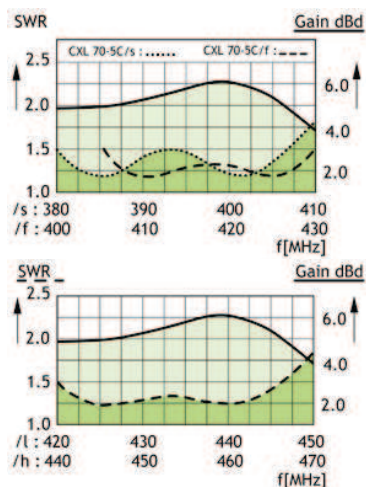
COLLINEAR, 5 DBD BASE STATION AND MARINE ANTENNA FOR THE 450 MHz BAND

SPECIFICATIONS

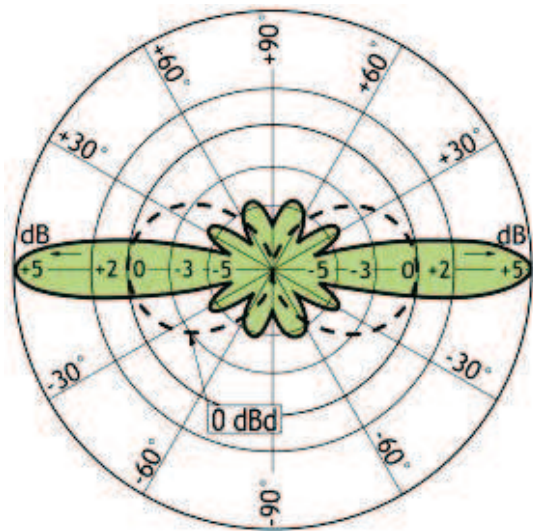
ELECTRICAL																															
MODEL	CXL 70-5C/...																														
ANTENNA TYPE	Collinear, broad-banded																														
FREQUENCY	30 MHz wide frequency segments within 350 - 620 MHz.																														
IMPEDANCE	Nom. 50 Ω																														
RADIATION	Omnidirectional																														
POLARIZATION	Vertical																														
GAIN	7 dBi 5 dBd																														
HALF POWER BEAMWIDTH	18°																														
BANDWIDTH	20 - 30 MHz (Dependent on model. See ordering designations)																														
SWR	<table><tr><th>Type</th><th>SWR < 1.5</th><th>SWR < 2.0</th></tr><tr><td>/ls</td><td>350-370 MHz</td><td>380-390 MHz</td></tr><tr><td>/ss</td><td>360-380 MHz</td><td></td></tr><tr><td>/s</td><td>380-400 MHz</td><td>400-410 MHz</td></tr><tr><td>/f</td><td>406-426 MHz</td><td>426-430 MHz</td></tr><tr><td>/l</td><td>420-440 MHz</td><td>440-450 MHz</td></tr><tr><td>/h</td><td>440-460 MHz</td><td>460-470 MHz</td></tr><tr><td>/hh</td><td>470-490 MHz</td><td></td></tr><tr><td>/vh</td><td>490-510 MHz</td><td>510-520 MHz</td></tr><tr><td>/uh</td><td>590-614 MHz</td><td></td></tr></table>	Type	SWR < 1.5	SWR < 2.0	/ls	350-370 MHz	380-390 MHz	/ss	360-380 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	
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	/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																														

MECHANICAL	
TEMP. RANGE	-35°C ÷ 70°C
CONNECTOR	N-female
WIND SURFACE	0.045 m ² / 0.48 ft ²
WIND LOAD	57 N @ 160 km/h / 99.42 mph.
COLOUR	Marine white
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

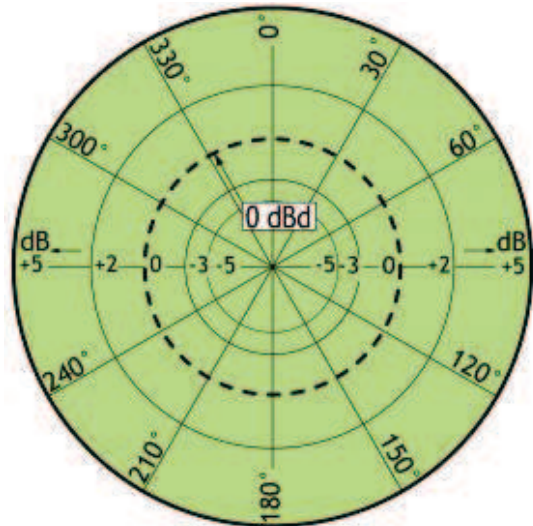
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



MULTI-PURPOSE MOUNTING
BRACKET

