CXL 70-3C/...

Colinear, 3 dBd Base Station and Marine Antenna for the 450 MHz Band



DESCRIPTION

- CXL 70-3C/... is a 3 dBd, vertically polarized, omnidirectional base station and marine antenna, which covers the 340 – 530 MHz band in 4 models with up to 10 MHz overlap.
- 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.
- CXL 70-3C/... 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 ensures long dependable service in all environments.

SPECIFICATION

Electrical	
Model	CXL 70-3C/...
Frequency	30 MHz wide frequency segments within 380 – 520 MHz. See model survey.
Antenna Type	Collinear, broad-band
Max. Input Power	150 W

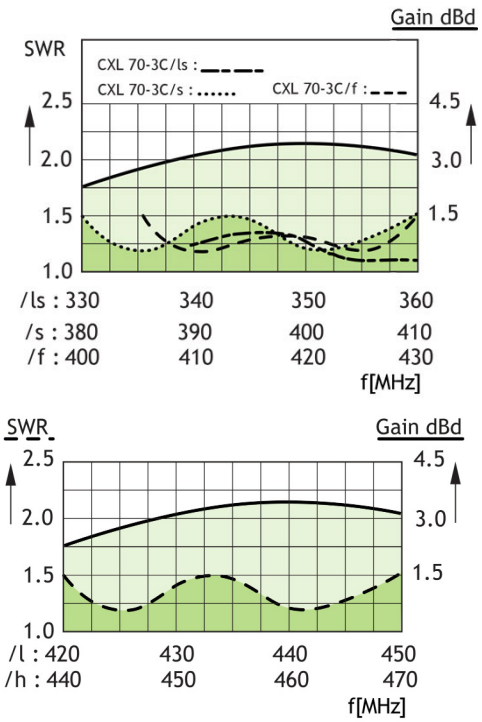
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
Pattern Type	Omnidirectional
3 dB Beamwidth, E-Plane	30 °
Impedance	50 Ω
Gain	3 dBd (5.2 dBi)
VSWR	< 1.5:1
Bandwidth	30 MHz
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 015DE50
Environmental	
Operating temperature range	-40 °C to +70 °C
Survival Wind Speed	200 km/h
Ingress Protection	IP66
Mechanical	
Wind Area	0.032 sq. m / 0.34 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)
Historic Brand	Amphenol Procom
Height	Approx. 1450 mm / 57.09 in.
Wind Load	40 N (160 km/h)
Dia. At Top End	16 mm / 0.63 in.
Weight	Approx. 2.4 kg / 5.29 lb.
Dia. At Bottom End	25 mm / 0.98 in.
Mounting	On 27 – 65 mm / 1.06 – 2.56 in. dia. mast tube

ORDERING CODES

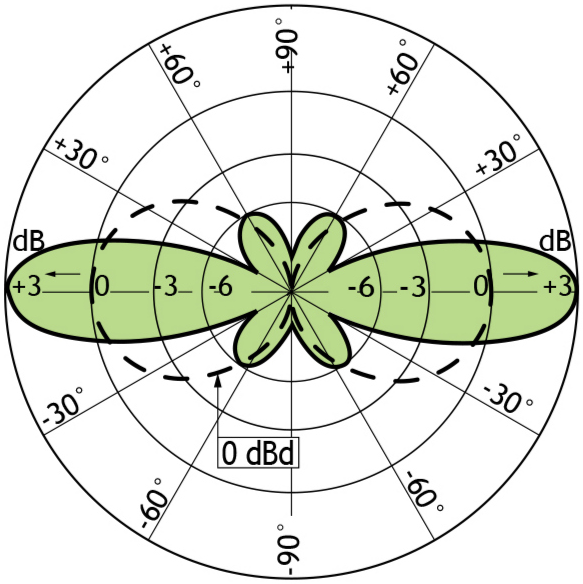
Model	Product No.	Frequency
CXL 70-3C/s	100000113	380 – 410 MHz
CXL 70-3C/f	100000109	406 – 430 MHz
CXL 70-3C/l	100000112	420 – 450 MHz
CXL 70-3C/h	100000110	440 – 470 MHz
CXL 70-3C/vh	Contact for availability (Ref: 37)	460 – 490 MHz
CXL 70-3C/uh	Contact for availability (Ref: 38)	490 – 520 MHz

ADDITIONAL INFORMATION

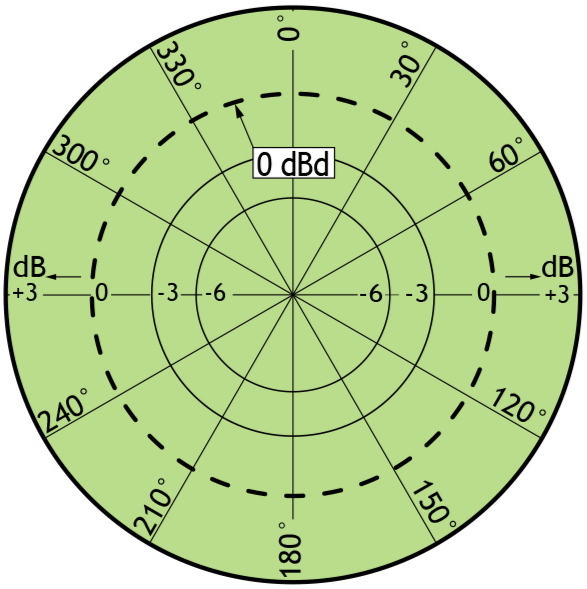
Typical Gain and VSWR curves



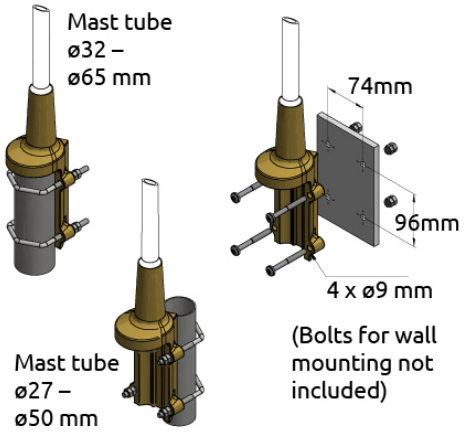
Typical radiation pattern (E-PLANE)



Typical radiation pattern (H-PLANE)



Multi-Purpose Mounting Bracket

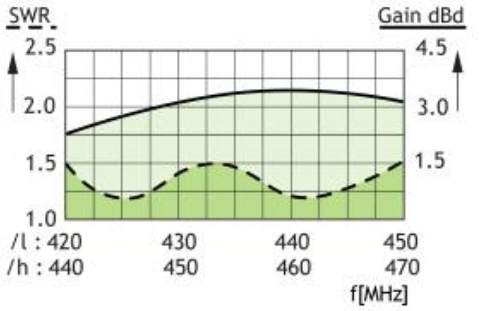


DIAGRAMS

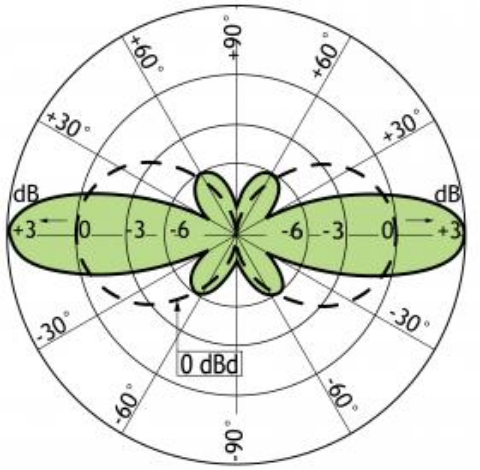
TYPICAL RADIATION PATTERN (H-PLANE)



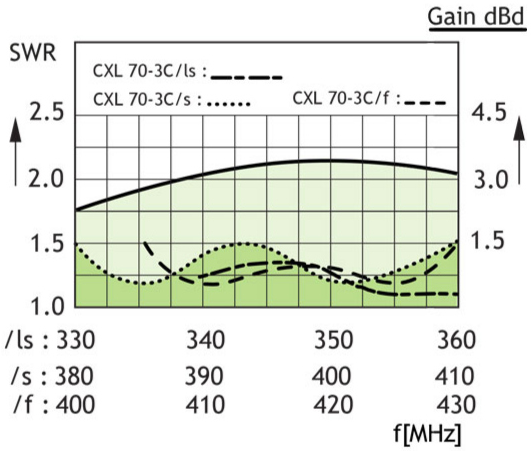
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL GAIN AND SWR CURVES



MULTI-PURPOSE MOUNTING BRACKET

