

## CXL 70-5C/T-12/...

Collinear, 5 dBd Base Station and Marine Antenna with 12 degrees electrical downtilt

- CXL 70-5C/T-12/... is a 5 dBd, vertically polarized, omnidirectional base station and marine antenna, covering the 380 - 470 MHz band.
- The antenna is provided with our type "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/T-12/... 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, ensuring a 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/T-12/s	380 - 400 MHz	100000460
CXL 70-5C/T-12/f	410 - 430 MHz	100000618
CXL 70-5C/T-12/l	430 - 450 MHz	100000598
CXL 70-5C/T-12/h	450 - 470 MHz	100000489

SPECIFICATIONS

**ELECTRICAL**

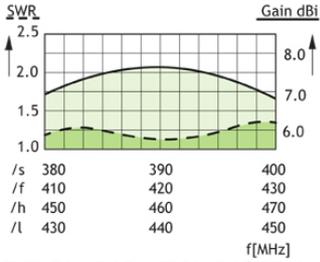
MODEL	CXL 70-5C/T-12/...
ANTENNA TYPE	Collinear, broad-banded
FREQUENCY *	380 - 470 MHz
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARIZATION	Vertical
GAIN	5 dBd (7 dBi)
ELECTRICAL TILT *	12°
HALF POWER BEAMWIDTH	18°
BANDWIDTH	20 MHz
SWR	≤ 1.5
MAX. POWER	250 W
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)

**MECHANICAL**

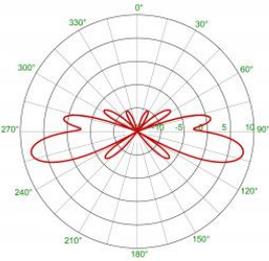
TEMP. RANGE	-35°C to +70°C
CONNECTOR	N-female
WIND SURFACE	0.161 m <sup>2</sup>
WIND LOAD	187 N @ 160 km/h
MAX. WIND SPEED	200 km/h (124 mph)
INGRESS PROTECTION LEVEL	IP66
COLOUR	Marine white (RAL 9010)
MATERIALS	Shroud: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, epoxy-coated Clamps: Stainless steel
TOTAL HEIGHT	3.2 m
DIA. IN TOP END	40 mm
DIA. IN BOTTOM END	40 mm
WEIGHT	Approx. 4.5 kg
MOUNTING	On 27 - 65 mm dia. mast tube

\* The average gain is 7 dBi within the frequency band for 12° electrical downtilt. Other electrical downtilt available on request.

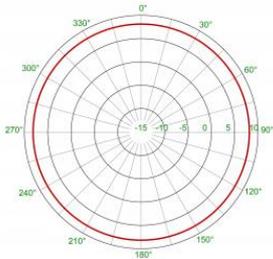
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



MULTI-PURPOSE MOUNTING BRACKET

