

## CXL 4-2C/...

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

- CXL 4-2C/... is a 0 dBd gain, omnidirectional rod-type base station antenna for the 80 MHz band.
- The 80 MHz-band is covered in 4 frequency segments: 66 - 80 MHz, 70 - 84 MHz, 74 - 88 MHz and 88 - 108 MHz.

### DESCRIPTION

- CXL 4-2C/... is designed for fixation on supporting tubes with outer diameter between 27 mm and 65 mm.
- The construction of the mount makes it possible to lead the cable either inside or along the outside of the mast tube.
- A glass fibre tube completely encloses the carefully designed radiating element to ensure long dependable service in all climates.
- Atmospheric discharges are immediately led to ground as all metal parts are DC-connected. Consequently, the antenna shows a DC-short across the coaxial cable.
- This antenna is used where reliability is of utmost importance. A long lifetime has been taken into consideration when designing this antenna – it is sturdy and strong.

### ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY
CXL 4-2C/l	100000059	66 - 80 MHz
CXL 4-2C/m	100000058	70 - 84 MHz
CXL 4-2C/h	100000057	74 - 88 MHz
CXL 4-2C/hh	100000470	88 - 108 MHz

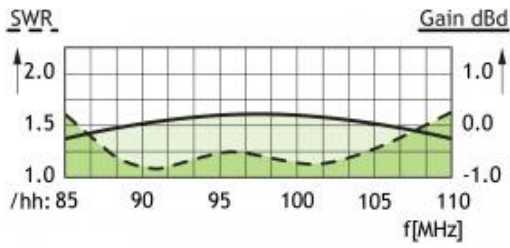
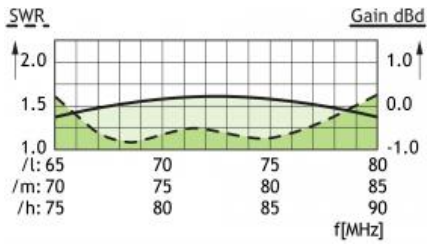


### SPECIFICATIONS

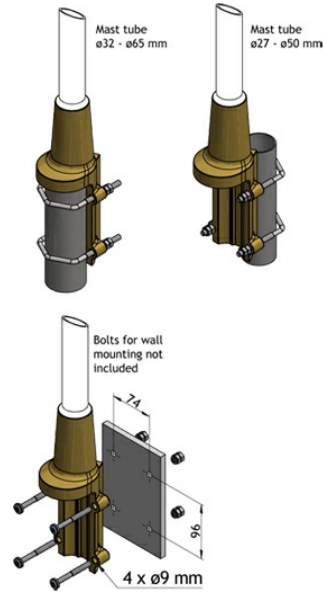
ELECTRICAL	
MODEL	CXL 4-2C/...
ANTENNA TYPE	Coaxial, broad-band dipole
FREQUENCY	Models within 66 - 108 MHz (see model survey)
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARIZATION	Vertical
GAIN	2 dBi 0 dBd
BANDWIDTH	14 - 20 MHz dep. of model
SWR	≤ 1.6
MAX. POWER	600 W
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
HCM CODE	HCM000ND00, 030DE00

MECHANICAL	
CONNECTOR	N-female
WIND SURFACE	0.15 m²
WIND LOAD	190 N @ 160 km/h
COLOUR	White (RAL 9003)
MATERIALS	Radiating part: Glass fibre, polyurethane-lacquered Mast clamp : Seawater-resistant aluminium, epoxy-coated
TOTAL HEIGHT	Approx. 3.1 m
WEIGHT	Approx. 4.5 kg
MOUNTING	On 27 - 65 mm dia. mast tube

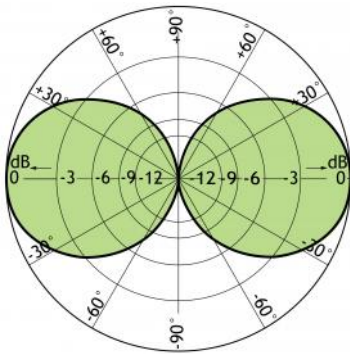
# TYPICAL GAIN AND SWR CURVES



# MULTI-PURPOSE MOUNTING BRACKET



# TYPICAL RADIATION PATTERN (E-PLANE)



# TYPICAL RADIATION PATTERN (H-PLANE)

