

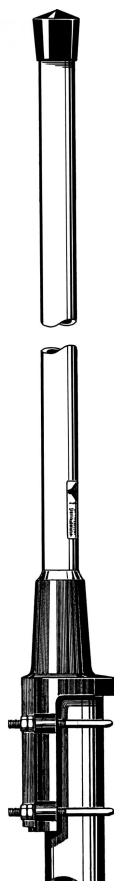
CXL TETRA/LTE 800/...

Dual-band, Base Station Antenna for TETRA and LTE 800 Bands

PRELIMINARY DATA SHEET

DESCRIPTION

- CXL TETRA/LTE 800/... is a dual-band 0 dBd, vertically polarized, omnidirectional base station antenna - two bands with only one antenna.
- Great radiation performance for both bands.
- The antenna is provided with our "C" mast bracket, which is a universal, epoxy-coated mounting bracket made of non-corrosive aluminium. The accompanying U-bolts and fittings are made of stainless steel.
- The antenna 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 antenna element is completely enclosed in a glass fibre shroud, 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.
- This antenna is constructed to ensure long dependable service in all climates.



ORDERING DESIGNATIONS

TYPE	FREQUENCY	PRODUCT NO.
CXL TETRA/LTE 800/l	380 - 410 MHz / 790 - 850 MHz	100000558
CXL TETRA/LTE 800/m	400 - 430 MHz / 790 - 850 MHz	100000546

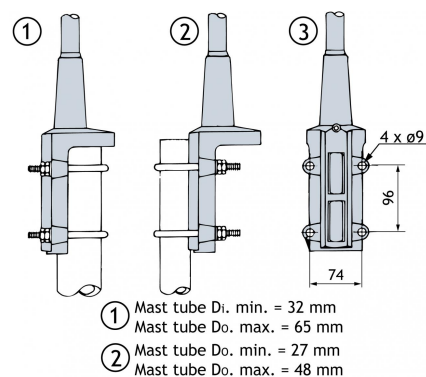
SPECIFICATIONS

ELECTRICAL	
MODEL	CXL TETRA/LTE 800/...
ANTENNA TYPE	Coaxial, dual-band base station antenna
FREQUENCY	TETRA : l : 380 - 410 MHz : m : 400 - 430 MHz LTE 800 : l : 790 - 850 MHz : m : 790 - 850 MHz
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARIZATION	Vertical
GAIN	Approx. 2 dBi 0 dBd
BANDWIDTH	TETRA: ≥ 30 MHz @ SWR 2.0 LTE 800: ≥ 60 MHz @ SWR 2.0
SWR	≤ 2.0
MAX. POWER	150 W (for each band)
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
MECHANICAL	
TEMP. RANGE	-30° C \rightarrow +70° C
CONNECTOR	N-female
WIND SURFACE	0.037 m ² / 0.4 ft ²
WIND LOAD	43 N @ 160 km/h / 99.42 mph.
MAX. WIND SPEED	200 km/h / 125 mph.
COLOUR	Marine white
MATERIALS	Radome : Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, epoxy-coated
TOTAL HEIGHT	Approx. 0.95 m / 37.40 in.
WEIGHT	Approx. 2.2 kg / 4.85 lb.
MOUNTING	On 27 - 65 mm / 1.06 - 2.56 in. dia. mast tube

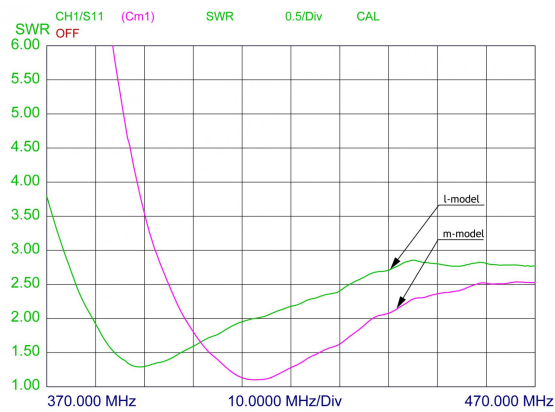
ORDERING

The antenna is delivered factory-tuned to two single frequencies or two frequency-bands. These two frequencies (stated in MHz) must be specified when ordering.

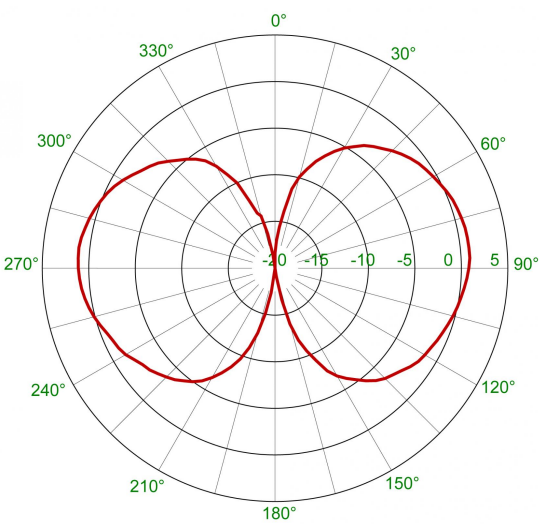
MULTI-PURPOSE MOUNTING BRACKET



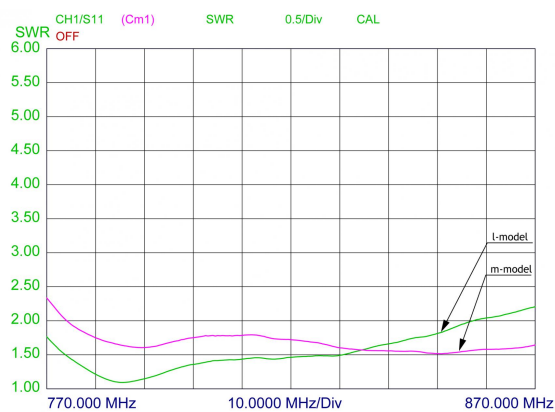
TYPICAL SWR CURVES FOR TETRA



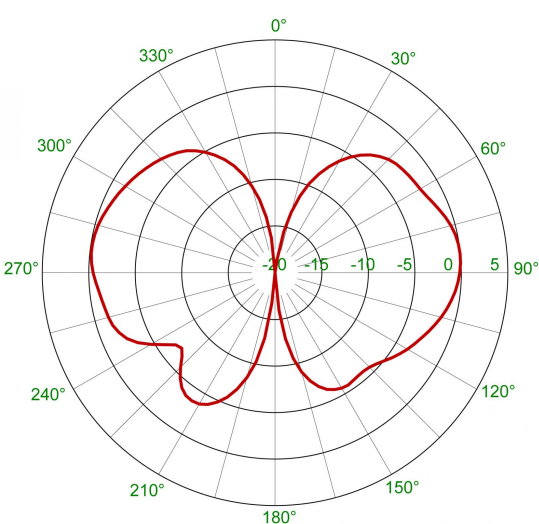
TYPICAL RADIATION PATTERN (E-PLANE) FOR TETRA




TYPICAL SWR CURVES FOR LTE



TYPICAL RADIATION PATTERN (E-PLANE) FOR LTE



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26/02/15