

Unity Gain Base Station and Marine 1800 MHz Antenna  
for Mounting on Threaded 1

DESCRIPTION

- The CXL 1800-1/... is a 0 dBd, vertically polarized, omnidirectional rod-type base station and marine antenna for the 1800 MHz band.
- The 1" revolving nut mounting system is standard throughout the base station and marine sector, and several different mounting brackets are available, making it possible to install the antenna either on the masthead using FLG or SMR 2, side-mounted on the mast (SMR 1) or mounted on a cross-beam (FLG). Also, the antenna can be mounted on deck or rooftop by means of the FLG.
- The CXL 1800-1/... is especially suitable for use in connection with 1800 MHz CELLULAR systems – as for instance the DCS-1800/PCN system – making it possible to extend the normally land-based cellular telephone system for maritime mobile service as well.
- The higher the antenna is mounted, the better coverage. Avoid mounting the antenna parallel to or in the neighbourhood of other metal parts, such as masts, supporting wires etc., otherwise the SWR and the radiation pattern may be strongly influenced.
- 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.
- A conical glass fibre tube completely encloses the carefully designed radiating element to ensure long dependable service in all climates.



ORDERING

Type	Product No.	Frequency
CXL 1800-1/l	100000179	1710 - 1880 MHz
CXL 1800-1/h	100000181	1850 - 2000 MHz

SPECIFICATIONS

Electrical	
Model	CXL 1800-1/...
Frequency	l: 1710 - 1880 MHz h: 1850 - 2000 MHz
Antenna Type	Coaxial dipole, broad-banded
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
3 dB Beamwidth, E-Plane	80 °
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
SWR	< 2.0:1
Maximum Input Power	100 W
HCM Code(s)	
Mechanical	
Wind Area	0.0070 sq. m / 0.08 sq. ft
Connection(s)	N(f)
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Chromed brass
Colour	White (RAL 9003)
Height	420 mm / 16.54 in.
Wind Load	9 N (160km/h)
Dia. At Top End	13 mm / 0.51 in.
Weight	0.25 kg / 0.55 lb
Dia. At Bottom End	16 mm / 0.63 in.
Mounting	On 1" RG (G1" - 11) threaded water pipe or on optional mounting brackets (see accessories )
Environmental	
Operating Temperature Range	-30°C to +70°C

ADDITIONAL DATA

