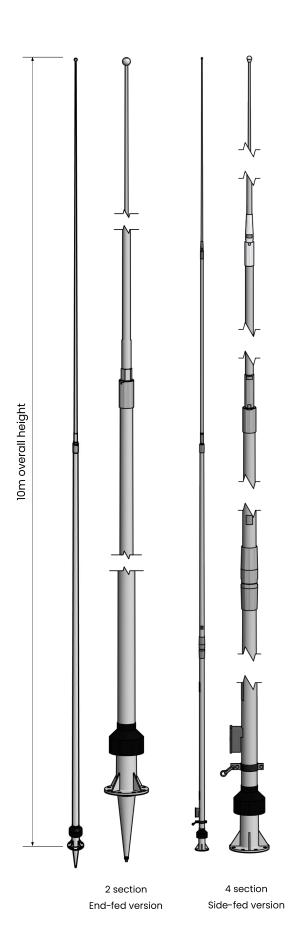
AT100 Series

10 m, HF, two-piece sectional whip, monopole, end feed, 1.6-30 MHz

Tactical Antennas: Tactical and Base Station





Application

The AT100 Series antenna is a high quality glass fibre transmitting antenna for marine coastal and HF telephony bands. It matches well all modern SSB marine telephony transmitters.

The AT100 is available as a two piece antenna as standard or as a four piece antenna to minimise shipping size.

End-fed or side-fed options are available.

Electrical Specifications

Frequency Range	1.6-30 MHz	
Power Rating	1.5 kW PEP	
Impedance	See table on page 3	
Pattern	Omnidirectional	
Polarisation	Vertical	
Electrical Length	10 m	

Mechanical Specifications

Design	Self supporting fibreglass rod with stainless steel armature			
Height	10 m nominal			
Weight	See table on page 2			
Sections	See table on page 2			
Wind Rating	55 m/s = 201 km/h			
Moment of Flexure	275 km/h at 55 m/s			
Deflection due to Wind Load	5 m at tip ball at 55 m/s wind load			
Finish	Polyurethane lacquer, white. Other colours available on request			
Temperature Range	- 55°C to + 55°C			
Water Proofing	IP67			



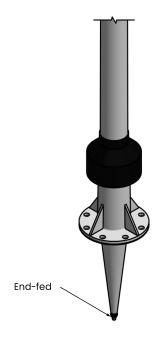
The AT100 Series is suited to mounting on top of the radio cabin. End-fed and side-fed options are available. See page 2 for details. If the end-fed insulator is not long enough, extensions are available. The mounting flange holes are suitable for M12 bolts.

Side-fed

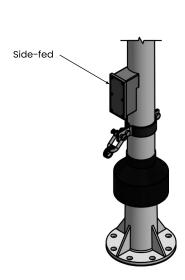
Dimensions and Weights

	Two-Section		Four-Section			
Dimensions	5 m nominal section length		2.5 m nominal section length			
Weight	End-fed Side-fed	22 kg 19.8 kg		End-fed Side-fed	25.6 kg 23.4 kg	
Sections	Base section	End-fed: ATB50 Side-fed: ATB50DS High side-fed: ATB50DS-H	18.5 kg 16.3 kg 16.3 kg	Base section Base section Base section	End-fed: AT100D-4B Side-fed: AT100DS-4B High side-fed: AT100DS-H-4B	14.1 kg 11.9 kg 11.9 kg
	Top section	APB50	3.5 kg	Lower section Middle section Top section		8.5 kg 2.2 kg 0.8 kg

Feed Options



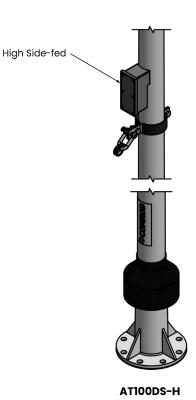
AT100DDeck mounted, end-fed



AT100DS

Deck mounted, side-fed

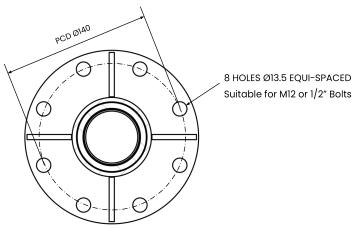
Fed cable positioned 500mm
above the mounting flange



Deck mounted, side-fed (high)
Uses the same side feed point as the
ATI00DS but it is positioned 2 metres
above the base flange

Base Flange Mounting Detail

(common for all feed types)



Impedance at CF and HF

Frequency in MHz, normal installation

Frequency (MHz)	Impedance AT100 Series		
1.6	5-j1000		
2.0	6-j600		
3.0	10-j350		
4.0	11-j200		
6.0	24-j34		
7.0	48+j57		
8.0	80+j140		
9.0	180+j275		
11.0	750+j60		
12.0	500-j350		
13.0	250-j360		
14.0	150-j300		
16.0	70-j180		
17.0	55-j135		
22.0	200+j130		
23.0	350+j60		
25.0	275-j200		
30.0	68-j52.5		

August 2019

All specifications are subject to change without notice
The information contained herein is for reference only and does not constitute a warranty of performance



