

Application:

The AV100 series antenna is a high gain antenna designed for the maritime VHF radio telephone service. It is a high quality antenna with a durable construction and a beautiful finish for installation on all kinds of vessels.

It consists of a base (AV100/2-B) and a top (AV100/2-T) section.

Mounting options are available, see page 2.

Electrical specifications:

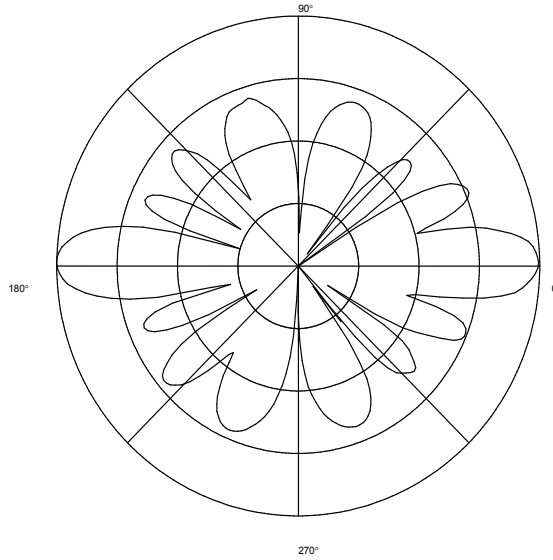
Type	AV100BI23-2	AV100D23-2	AV100M23-2
Frequency range	156 – 162 MHz VSWR<1.5 @ 158.6MHz		
Nominal impedance	50 ohm		
Power rating	100 W		
Gain	10 dB		
Pattern	Horizontal plane: Omnidirectional Vertical plane: See diagram		
Polarization	Vertical		
Connector	BI female	UHF female	UHF female
DC-grounded	Yes		

Mechanical specifications:

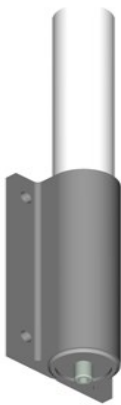
Design	Phased $1/2 \lambda$ elements in a collinear array with a coaxial choking sleeve to suppress cable radiation. Radiating elements completely enclosed in polyurethane foam within a fibreglass tube.
Height	23' (7 m.)
Weight	3.8 + 1.2 = 5 kg
Wind rating	55 m/s = 125 mph
Sections	Base: 11,5 ft. (3,5 m.) Top: 11.5 ft. (3.5 m.)
Finish	Polyurethane lacquer, white
Temperature range	-55 °C, +71 °C; -67 °F, +160°F

Suitable cable: RG58, RG213 or similar.

Vertical radiation diagram:
(frequency = 156.8MHz)



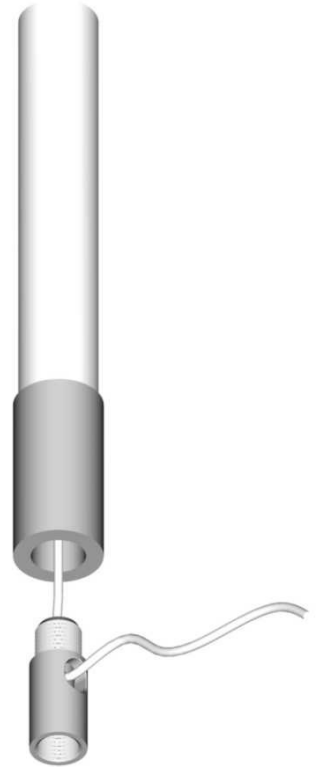
Mounting Options:



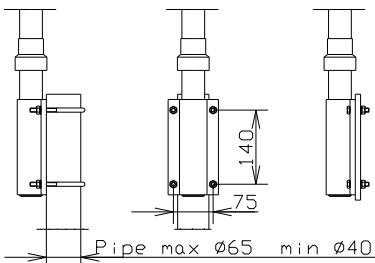
AV100M23-2
UHF-Connector



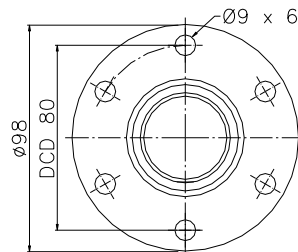
AV100D23-2
UHF-Connector



AV100BI23-2
Integrated BNC-Connector



Stainless steel M10 U-bolts are included as standard. M10 bolts for bulkhead mounting are not included.



Deck mount hole pattern

Mounting:

To be mounted on a superstructure with UNS 1'x14 base and support approx. 1.5' above the deck. Stand off support and base are not included.

To enable cable feed at the bottom of the antenna, an AV-C adapter (included) can be used. See diagram above for detail.