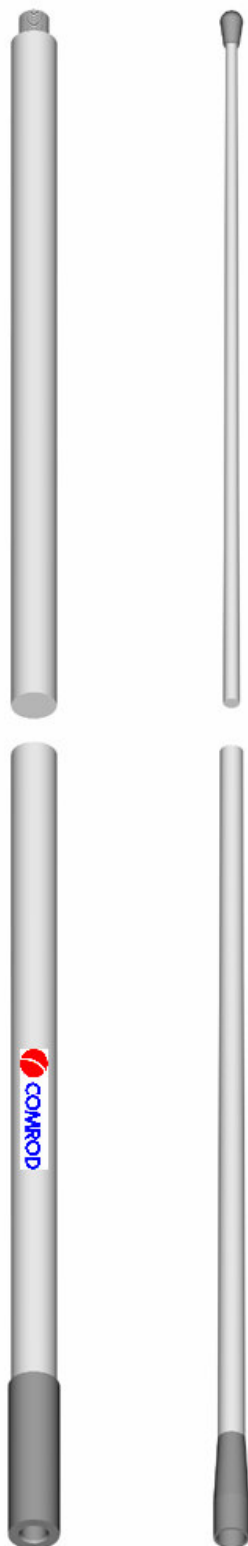


COMROD AV90 Antenna series

16' Marine VHF Antennas



Application:

The AV90 antenna series are high gain antennas designed for the maritime VHF radio telephone service. They are high quality antennas with a durable construction and a beautiful finish for installation on all kinds of vessels.

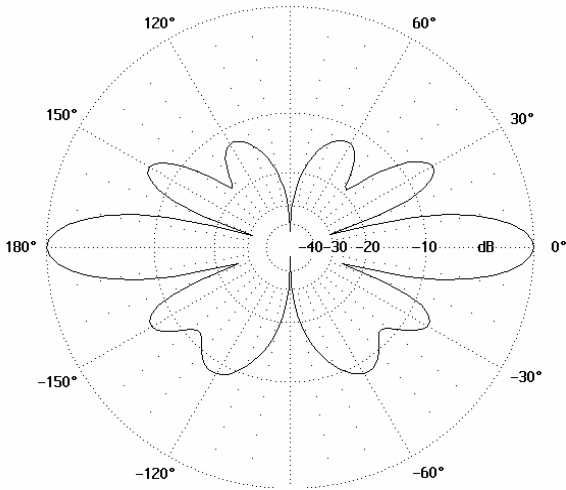
Choose between base sections: AV90BI16-2, AV90D16-2 or AV90M16-2 together with the top whip section AV60-BI

Electrical specifications:

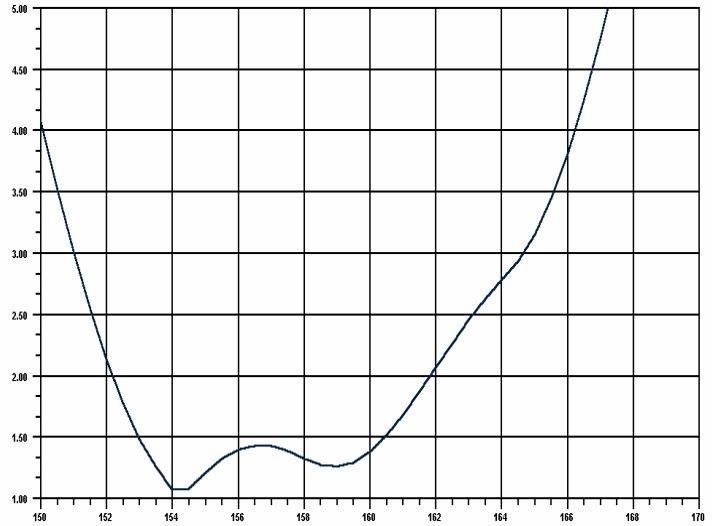
Type	AV90BI16-2	AV90D16-2	AV90M16-2
Frequency range	156-159 MHz, VSWR < 1.5 : 1 159-162 MHz, VSWR < 2.5 : 1		
Nominal impedance	50 ohm		
Power rating	100 W		
Gain	9 dB Base section 3dB Top whip section 6dB		
Pattern	Horizontal plane: Omnidirectional Vertical plane: See reverse side		
Polarization	Vertical		
Connector	BNC female	UHF female	UHF female
DC-grounded	Yes		

Mechanical specifications:

Design	The top section is an AV60BI antenna using two 5/8 elements, and the base-section is a stacked co-linear array. Radiating elements completely enclosed in polyurethane foam within a fiberglass tube.
Height	16' (4.9 m.)
Weight	3.5 + 1.1 = 4.6 kg
Wind rating	55 m/s = 125 mph
Finish	Polyurethane lacquer, white
Temperature range	-55 °C, +71 °C; -67 °F, +160°F

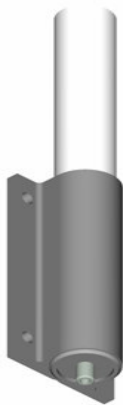


Vertical radiation diagram
f= 156.8MHz



Standing wave ratio

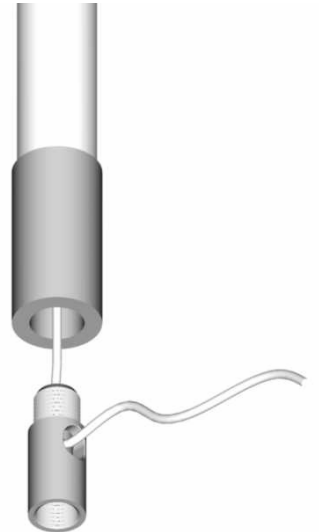
Different versions:



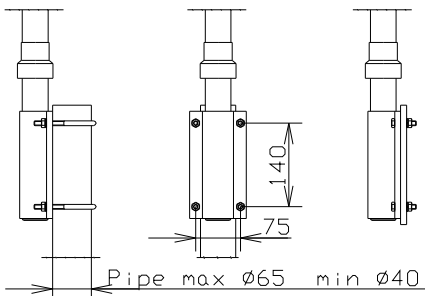
AV90M
(UHF-Connector)



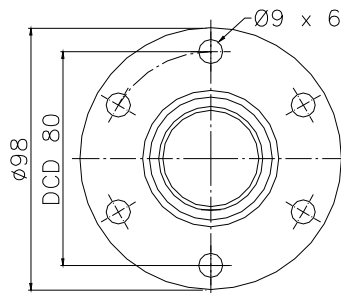
AV90D
(UHF-Connector)



AV90BI
Integrated BNC-Connector



The U-bolts in stainless steel, are included. Use bolts and nuts M10. The AV90M is self-supporting



Deck mount

Mounting:

To be mounted at superstructure with UNS 1'x14 base and support approx. 1.5' up. Stand off support and base are not included.

To be able to have cable feed at the bottom of the antenna above mounting bracket, an AV-C adapter (included) can be used.

UNS: Unifield Special