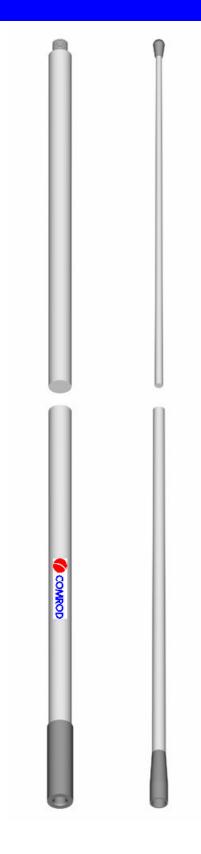
COMROD AV90 Antenna series

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 beautifull 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

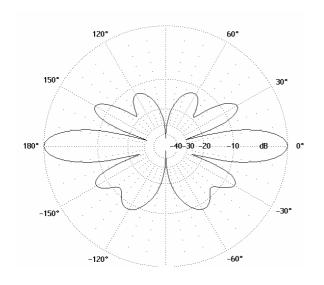
Electrical specifications:

| 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 | n 6dB | | |
| Pattern | Horizontal plane: Omnidirectional | | | |
| Vertical plane: See reverse side | | | se side | |
| Polarization | Vertical | | | |
| Connector | BNC female | UHF female | UHF female | |
| DC-grounded | Yes | | | |

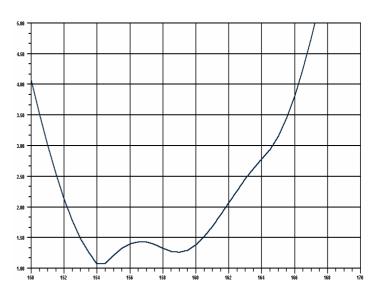
Mechanical specifications:

| 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 | |



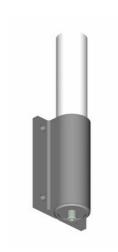


Vertical radiation diagram f= 156.8MHz

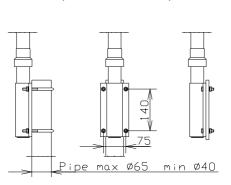


Standing wave ratio

Different versions:



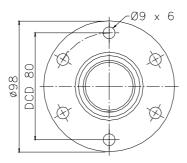
AV90M (UHF-Connector)



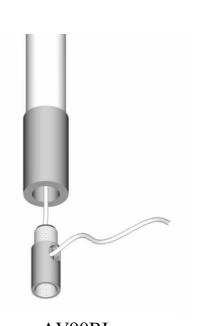
The U-bolts in stainless steel, are included. Use bolts and nuts M10. The AV90M is self-supporting



AV90D (UHF-Connector)



Deck mount



AV90BI Integrated BNC-Connector

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