High quality antennas
- Made in Norway
ONE OF THE WORLD’S LEADING MANUFACTURERS OF COMMUNICATION ANTENNAS!

Each COMROD antenna is tested 100% electrically before shipping. With so much relying on our antennas, nothing can be left to chance. That is why Comrod antennas withstand 125 mph (55 m/sec.) winds and have a high life time expectancy of at least 20 years.

Our commitment to quality has made COMROD the #1 antenna for the World’s commercial fleet over 300 GRT. There is no reason why the same should not happen with the professional fleet under 300 GRT.

COMROD antennas are made with relentless attention to detail, thus ensuring optimum performance and reliability year after year under even the most extreme conditions.

COMROD’s antenna conductors are completely enclosed in polyurethane foam which fixes them firmly thus preventing breakage due to vibration. This polyurethane foam also eliminates condensation that keeps the conductor corrosion free – for life.

The polished surface of the outer tube is covered by a flexible UV resistant polyurethane lacquer for strength and durability.

COMROD antennas come complete with mounts and accessories.
HF/SSB antenna specially designed to satisfy the demand on the GMDSS

• Design:
  - Self supporting fiberglass rod:
    - with aluminum mount and U-bolts in Stainless Steel or
    - deck mount with HMC flange
  - 2 sections

• Frequency range:
  - 0.15–30 MHz
  - 1.5 kW PEP

AT82 – AR82 M
AT72 – AR72 M
AT62 – AR62 M

4.7ft (1.4 mtr) High quality VHF antenna. Designed to withstand the hardest conditions imaginable at sea.

• Frequency range:
  - 156–162 MHz, VSWR < 1.5:1
  - 153–170 MHz, VSWR < 2:1

• Power rating:
  - 100 W

• Gain:
  - 4 dBi

• Design:
  - Center fed coaxial dipole

The mounting bracket is made of aluminum. U-bolts in Stainless Steel and rubber cap for protection of the connector – are included.

For other specifications – ask for a datasheet.

Reference no 014600

AV7M

We needed the best antenna there was. We put it through tough tests and it came out on top every time. We, the RNLI (Royal national lifeboat institute, uk), have to rely on both personell and equipment.

There is no room for second best!
### AV10023-M2

A VHF antenna made for installation on all kinds of vessels.

- **Frequency range:** 156 – 162 MHz
- **Gain:** 30 dB
- **Design:** Self-supporting fiberglass with various mounting solutions. Mast mount, deck mount and 1”x14 base (TS - Requires side support 1,5” up).
- **Suitable cable:** Stainless Steel included
- **Ref. numbers:** A1000823-2, A1000823-1, A1000823-3

Optional Rupp collar™

### AC17M4-AIS

A 4 ft (1.25 m) combined GPS and marine VHF antenna for Automatic Identification System transponders. A signal splitter (AIS/F) for separating the VHF and GPS signal comes with the antenna.

- **Frequency range:** VHF: 156 – 162 MHz, VSWR < 2.1, GPS: 1575.42 MHz, L1
- **Power rating:** VHF: 25 W, GPS: 1 dBm
- **Gain:** VHF: 1 dB, GPS: 20 dB Pre-amplifier
- **Design:** The mounting bracket is made of aluminum, U-bolts in stainless steel, and is supplied with protection for the connector – are included.

For more details:
- Ask for a datasheet.

Ref. numbers:
- AC17M4-AIS (W/ connector): Ref. no 014280
- AC17M4-AIS (Complete): Ref. no 014282
- AC17M4-AIS antenna section: Ref. no 014284
- AIS/F Filter unit: Ref. no 014286

### AR10A/MF

A 3.5 ft active marine receiving whip for a Navtex or DGPS receiver.

- **Frequency range:** 2.25 – 2.55 MHz
- **Polarization:** Vertical
- **Impedance:** 50 Ohm
- **Supply voltages:** 9 – 15 V
- **Design:** Self-supporting fiberglass rod with an aluminum bracket w/stainless steel fixing hardware included.

For other specifications:
- Ask for a datasheet.

Ref. no. 010200

### COMROD - QUALITY MADE IN NORWAY

#### AV19M

5.5 ft Ground-Air VHF Communication antenna

- **Frequency range:** 118 – 136 MHz
- **Power rating:** 100 W
- **Gain:** 3 dB
- **Design:** Selfsupporting centerfed coaxial dipole
- **Suitable cable:** RG, RG213 or similar.
- **Ref no.** 014720

For other specifications:
- Ask for a datasheet

### AV55 SERIES WLAN

High quality, high gain antenna for wireless LAN that complies with IEEE802.11g.

- **Frequency range:** 2400 – 2480 MHz
- **Power rating:** 5 W
- **Gain:** 6 dB

For other specifications:
- Ask for a datasheet

#### BI VERSION:

- **Have UNS 1”x14 Stainless Steel female ferrules**
- **Have integrated BNC female coaxial connector**
- **Include “Cable tool” that fits around the male connector and cable – allowing an easy cable connection**
- **BNC connector allow antenna to be turned without twisting cable when installed**
- **Suitable Cable:** RG58
- **Radiating elements completely enclosed in polyurethane foam within the fiberglass tube**
- **Suggested mount:** All standard mounting 1”x14 mounting accessories and Comrod extension masts
AT100 SERIES

33ft (10 mtr) deck mount. High quality transmitting antenna for marine coastal and HF telephony bands.

- Frequency range: 1.5–30 MHz
- Power rating: 1.5 kW PEP
- Gain: 3 dB
- VSWR: < 2:1
- Frequency range: 1.6–30 MHz
- Power rating: 1 kW PEP
- Top: ATB30: 17th (5.1 mtr)
- Bottom: APB30: 16th (4.9 mtr)

For other specifications – ask for a datasheet.

AC11-BI & AC11-BI/US

4ft (1.25 mtr) High quality combined VHF & UHF antenna.

- Frequency range: 156–162 MHz, 825–895 MHz (US frequencies), 880–960 MHz (European frequencies)
- VSWR = 2.3
- Power rating: 50 W on VHF and 25 W on UHF
- Gain: 3 dBi
- Design: Dual centered coastal dipoles, brass elements

For other specifications – ask for a datasheet.

AV17P4

4ft (1.25 mtr) High quality marine UHF antenna. Designed for cellular telephone service including GSM

- Frequency range: 825–895 MHz, VSWR = 2 (US frequencies)
- 890–960 MHz, VSWR = 2 (European frequencies)
- Power rating: 100 W
- Gain: 6 dB
- Design: Stacked dipole brass elements

For other specifications – ask for a datasheet.

-P version: 4ft. Ref. no 044675

AC11-P & AC11-P-US

24 ft (7.3mtr) SSB – three section. A high quality fiberglass HF antenna for marine coastal and SSB telephony bands. It is designed for use on pleasure craft, but the high quality means it may be used on all kinds of vessels. • Frequency range: 1.6–30 MHz • Power rating: 1 kW PEP • Gain: 3 dB • VSWR: < 2:1 To be mounted at the superstructure with UNS3/4-14 base, and a 3” support at least 0.5m above the base.

Support and base not included

Ref. no 045106

AV73TS24-3

16 ft (4.9mtr) SSB two sections. A high quality fiberglass HF antenna for marine coastal and SSB telephony bands. It is designed for use on pleasure craft, but the high quality means it may be used on all kinds of vessels.

- Frequency range: 1.6–30 MHz
- Power rating: 1 kW PEP
- Gain: 3 dB
- VSWR: < 2:1
- Ref. no AT53 TS16-2: 001595
- AT53 TS16-2: 001425

Matching VHF: AV90

Optional Rupp collar™

AC21 SERIES

Multi Band Cellular and WLAN Antenna

- Frequency range: 0.15–1.5 GHz
- Design: Whip with transformer

For other specifications – ask for a datasheet.

Ref. no 044685 AC212P
Ref. no 044680 AC21BP
Ref. no 044685 AC21MP

AT53 SERIES

16 ft (4.9mtr) High quality marine UHF antenna. Designed for cellular telephone service including GSM

- Frequency range: 156–162 MHz, VSWR = 1.5:1
- 145–165 MHz, VSWR = 2.1
- Power rating: 100 W
- Gain: 4.8 dB
- Design: Coaxial dipole, brass elements

For other specifications – ask for a datasheet.

AV51BI4/AV51P4

4ft (1.25 mtr) High quality VHF antenna. Designed to be used on board pleasure craft.

- Frequency range: 156–162 MHz, VSWR = 1.5:1
- 145–165 MHz, VSWR = 2.1
- Power rating: 100 W
- Gain: 4.8 dB
- Design: Coaxial dipole, brass elements

For other specifications – ask for a datasheet.

-BI version: Ref. no 044615
-P version: Ref. no 044610

AV60BI/AV60P8

8ft (2.45mtr) VHF – high quality gain antenna. Designed to be used on board pleasure craft.

- Frequency range: 156–165 MHz, VSWR = 1.5:1
- 145–165 MHz, VSWR = 2:1
- Power rating: 100 W
- Gain: 6 dB
- Design: Collinear 5/8

For other specifications – ask for a datasheet.

-BI version: Ref. no 044632
-P version: Ref. no 044630

AM/FM60BI8 & AM/FM51BI8

The AM/FM antennas are broad-band receiving antennas.

- Frequency range: 0.15–1.5 GHz
- Design: Whip with transformer

For other specifications – ask for a datasheet.

Ref. no 044746 4way Bracket – Stainless Steel, for deck or side mounting. To go with all –BI versions. Standard 1” threads

Ref. no 044757 4way Bracket Stainless Steel, for deck or side mounting. To go with all –BI versions. Standard 1” threads

Ref. no 044985 Straight-Mount Bracket – Stainless Steel for deck mounting. To go with all –BI versions. Standard 2” threads

Ref. no 044988 Adapter Tube – Stainless Steel - 13/4” to be used when using 2” version on a 4 way Bracket/Straight-Mount Bracket

Ref. no 044970 Shock Absorber fits standard 1”/4” antenna mount. Suitable for Compatible with Comrod’s BI antenna series. Spring base made of Stainless Steel. Meant for antennas 4” and below.

Ref. no 044702

MOUNTS & ACCESSORIES

Comrod VHF and UHF antennas for pleasure craft have two installation/mounting alternatives:

- BI and P version:

  - BI version:
    - Have UNS 1”/4” Stainless Steel female threads.
    - Have integrated BNC female coaxial connector
    - Include “Cable test” that fits around the male connector and cable – allowing on easy cable connection
    - Have BNC connectors allowing the antennas to be turned without twisting cable when installed
    - Suitable Cable: RG58
    - Comes with radiating elements completely enclosed in polyurethane foam within the fiberglass tube
    - Suggested installation: All standard mounting l”4” mounting accessories and Comrod extension masts

  - P version:
    - EPS 1”/11 Stainless Steel nut
    - Suggested installation:
    - On a pipe with EPS 1”/11 female UN threads.
    - When using adapter tube the –P version may make use of all standard mounting accessories and Comrod extension masts
    - UHF – connector on VHF antennas
    - N – connector on UHF antennas
    - Radiating elements completely enclosed in polyurethane foam within the fiberglass tube
    - Suitable cable: RG58, RG8, RG213

All VHF and UHF antennas are designed for use on pleasure craft, but the high quality means it may be used on all kinds of vessels.
FLEXIBLE OPTIONS

COAXIAL CABLE - CABLE LOSS

Maximum recommended length*

<table>
<thead>
<tr>
<th>MHz</th>
<th>RG 58</th>
<th>RG 62</th>
<th>RG 8</th>
<th>RG213</th>
</tr>
</thead>
<tbody>
<tr>
<td>VHF</td>
<td>40' (12 m)</td>
<td>62' (19 m)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UHF</td>
<td>16' (5 m)</td>
<td>26' (8 m)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* At this “maximum length” the cable will have 2dB loss. 2dB means that 40% of the signal is lost in the cable. This corresponds to range reduction of approximately 7%.

If maximum cable length is exceeded, you have to use a pigtail to be able to connect a better cable on all antennas. The extra loss due to the pigtail is not measurable below 1000 MHz. At 1800 MHz the loss is below 10%. corrosion due to rain or conduction of antenna impact 5 – 2%.

When doubling the antenna height the benefit from having the antenna high up is however much bigger than the disadvantage due to the extra loss in the coaxial cable. Doubling the antenna height will normally give approximately 25% extra range.

DID YOU KNOW...

• That inside condensation and subsequent corrosion will destroy most communication antennas – without you even realizing what is going on?

• That the communication system onboard your craft is never better than the weakest component, which is often a poor antenna?

• That COMROD’s antenna conductors are completely enclosed in polyurethane foam which fixes them firmly thus preventing breakage due to vibration? This polyurethane foam also eliminates condensation that keeps the conductor corrosion free – for life.

• That a flexible UV resistant polyurethane lacquer covers the polished surface of the outer tube for strength and durability?

• That all COMROD antennas withstand 125 mph (55 m/s) wind?

• That every antenna is tested before they leave the factory?
The selection of a marine antenna must be made with great care, because even the best radio or radio system is worthless with a defective antenna. Vessels, from the deep sea fleet to fishing boats, workboats and pleasure craft benefit from our high quality products. Be uncompromising when you choose antennas.