



**COMROD**  
REACHING FURTHER

**HIGH QUALITY ANTENNAS - MADE IN NORWAY**



**COMROD  
ANTENNAS  
ARE MADE TO  
IMPRESS**



## AND ALWAYS OF UNCOMPROMIZING STANDARDS

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.

**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!**



## AV90BI16-2

16ft VHF antenna  
9db - two sections

- Frequency range: 156 - 162 Mhz
- Power rating: 100W

Ref no. AV90BI16-2: 014170

Matching the following SSB antennas AT53TS16-2 (001595)

AV90D16-2: 014180  
AV90M16-2: 014190



## AT92

30ft (9 mtr) High quality transmitting antenna for marine coastal and HF telephony bands. Specially designed to satisfy the demands on the GMDSS

- Frequency range 1,6-30 MHz
- Power rating 1,5 kW PEP
- Design Self supporting fiberglass rod with aluminum mount bracket and Stainless Steel U-bolts included

For other specifications – ask for a datasheet.

Ref. no 001516



## AT82 - AR82 AT72 - AR72 AT62 - AR62

HF/SSB antenna specially designed to satisfy the demand on the GMDSS

- Design: Self supporting fiber glass rod:
  - with aluminum mount and U-bolts in Stainless Steel or
  - deck mount with HMC flange
  - 2 sections
- Frequency range: 0.15- 30MHz
- Power rating: 1,5 kW PEP

AT82 26ft. (8 mtr)  
Ref. no 001510  
AT82D Deck mount  
Ref. no 001570

AT72 23ft (7 mtr)  
Ref. no 001512  
AT72D Deck mount  
Ref. no 001572

AR62 20ft (6 mtr)  
Ref. no 001524  
AR62D Deck mount  
Ref. no 001584

Other specifications – ask for a datasheet.

Check our datasheet; axby.pdf for other modular antennas



## AV62-P

9,5ft (2,9 mtr) High quality VHF antenna. Designed for Maritime VHF Radiotelephone services on board vessels and craft where demands are very high.

- Frequency range: 156-159 MHz, VSWR< 1.5:1  
153-162 MHz, VSWR< 2:1
- Power rating: 100W
- Gain: 4dBi
- Design: Collinear  $5/8 \lambda$  phased brass elements

Suggested installation: To bulkhead by means of 4 holes in the aluminum bracket. To a mast or tube with U-bolts. Aluminum bracket, U-bolts in Stainless Steel are included

For other specifications – ask for a datasheet.

Reference no 014650



## AV6K/AV6K-U

4,7ft (1,4 mtr) High quality-heavy duty 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: 200W
- Gain: 2dBi
- Design: Center fed coaxial dipole

The installation hardware is made of hot dip galvanized steel and is included.

For other specifications – ask for a datasheet.

AV6K - N connector female:  
Ref. no 014200

AV6K-U/UHF connector female:  
Ref. no 014500



## AV7

4,3ft (1,3 mtr) High quality VHF antenna. May be installed on all kinds of vessels.

- Frequency range: 156-162 MHz, VSWR< 1.5:1  
144-165 MHz, VSWR< 2:1
- Power rating: 100W
- Gain: 2dBi
- 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.

Ref. no 014600



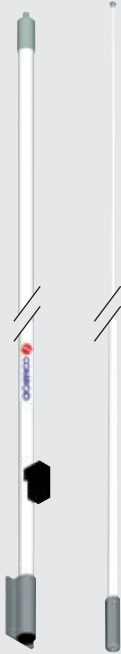
## AT57

19ft (5.7 mtr) Transceiving HF/SSB antenna specially designed for medium sized commercial vessels to satisfy the demands on GMDSS

- Design: Self supporting fiberglass rod with aluminum bracket. Stainless Steel U-bolts included
- Frequency range 0.15-30MHz
- Power rating: 1 kW PEP

Other specifications  
– ask for a datasheet.

Ref. no 001600



## AR55/AR55T

18ft (5.4 mtr). An efficient self supporting fiberglass receiving antenna for MF, marine coastal and HF bands. This antenna can be supplied with protection against static discharges that can harm the receiver.

- Design: Self supporting fiberglass whip with bronze armature for mounting and connection.
- Frequency range: 0.15-30MHz
- Suitable cable: RG8, RG213 or similar

Other specifications  
– ask for datasheet.

AR55 - Ref. no 011100  
AR55T - Ref. no 011400



## AR42/AR42T

13.7ft (4.1mtr) receiving antenna for the marine coastal and HF communication frequencies. The "T" version is equipped with a transformer which increases signal strength 9 times at low frequencies.

- Design: Self supporting fiberglass rod with aluminum bracket, U-bolts in Stainless Steel included
- Frequency range: 0.15-30 MHz
- Suitable cable: RG8, RG213 or similar.

Other specifications  
– ask for datasheet.

AR42 - Ref. no 010850  
AR42T - Ref. no 010860



## AV10023-1

(M, D or TS types are available)

23ft high gain 1 section VHF antenna made for installation on all kinds of vessels.

- Frequency range: 156-162 MHz.
- Gain: 10dB
- Design: Self supporting fiberglass rod with various mounting solutions: Mast mount, deck mount and 1"x14" base (TS -Requires side support 1,5" up). For more information, ask for a datasheet.
- This antenna comes in a 2-section type also. Contact the manufacturer for more information

Ref. Numbers 1 section antennas:  
AV100M23-1 Ref. no 014240  
AV100D23-1 Ref. no 014270  
AV100BI23-1 Ref. no 014220

Ref numbers 2 sections antennas:  
AV100M23-2 Ref. no 014250  
AV100D23-2 Ref. no 014260  
AV100BI23-2 Ref. no 014230



## AC17M4-AIS

4 ft (1,25 mtr) 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.

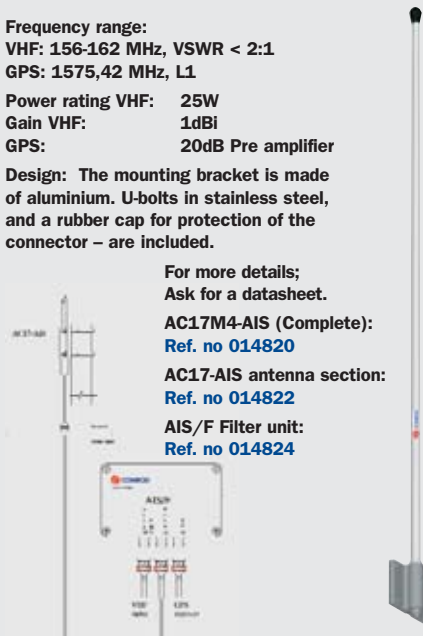
- Frequency range:  
VHF: 156-162 MHz, VSWR < 2:1  
GPS: 1575,42 MHz, L1
- Power rating VHF: 25W
- Gain VHF: 1dBi
- GPS: 20dB Pre amplifier
- Design: The mounting bracket is made of aluminium. U-bolts in stainless steel, and a rubber cap for protection of the connector – are included.

For more details;  
Ask for a datasheet.

AC17M4-AIS (Complete):  
Ref. no 014820

AC17-AIS antenna section:  
Ref. no 014822

AIS/F Filter unit:  
Ref. no 014824



## AR10A/MF

3,5ft active marine receiving whip for a Navtex or DGPS receiver.

- Frequency range: 0,25 - 2,5 Mhz
- Polarization: Vertical
- Impedance: 50\_
- Supply voltage: 9 - 15V
- Design: Selfsupporting fiberglass rod with an aluminum bracket w/stainless steel fixing hardware included.

For other specifications:  
Ask for a datasheet.

Ref. no. 010200



## AV19

### 5,5 ft Ground-Air VHF Communication antenna

- Frequency range: 118 - 136 Mhz
- Power rating : 100W
- Gain: 2Dbi
- Design: Selfsupporting centerfed coaxial dipole

The installation hardware is made of hot dipped galvanized steel, and is included.

For other specifications:  
Ask for a datasheet

Ref no. 014720



## AV55 M2 WLAN

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

- Frequency range: 2400 - 2480 MHz
- VSWR: 1,8
- Power rating: 5W
- Gain 8dBi

For other specifications; Ask for a datasheet

Ref. No. 014622

Optional:

AV55P version, ref no 014624

AV55BI version, ref no. 014626



## 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

# COMROD - QUALITY MADE IN NORWAY



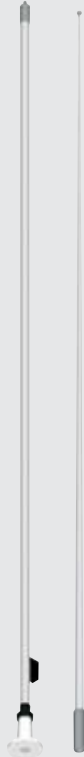
## AT100

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

- Frequency range: 1.6-30 MHz
- Power rating: 1.5 kW PEP
- Design:  
Self supporting fiberglass rod with stainless steel flange.
- Wind rating: 125 mph. (55 m/s)
- 2 sections:  
Base: ATB50: 17ft (5.1 mtr)  
Top: APB50: 16ft (4.9 mtr)

For other specifications  
– ask for a datasheet.

Side feed - D/S: Ref. no 001705  
End feed - D: Ref. no 001700



## AT73TS24-3

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
- To be mounted at the superstructure with UNS1"x14 base, and a 1<sup>1/2</sup> support at least 0,5m above the base.

Support and base not included

Ref. no 001598

Extension masts:  
EXT base sec: 001475  
EXT mid sec: 001465  
AV-C2 adapter: 014798

Matching VHF AV60BI:  
014632



## AT53TS16-2

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

Ref. no  
AT53 TS16-2: 001595  
AT53 D16-2: 001430  
AT53 M16-2: 001425

Matching VHF: AV90

Also available as 23ft version  
(AT73TS23-2)



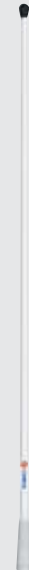
## AC11-BI & AC11-BI/US AC11-P & AC11-P/US

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

- Frequency range:  
156-162 MHz,  
825-895 MHz, (US frequencies)  
890-960 MHz, (European frequencies)
- VSWR: < 2:1
- Power rating:  
50W on VHF and 25W on UHF
- Gain: 3dB
- Design:  
Dual centered coaxial dipole, brass elements

For other specifications  
– ask for a datasheet.

-BI/US version: Ref. no 014738  
-BI version: Ref. no 014736  
-P/US version: Ref. no 014732  
-P version: Ref. no 014730



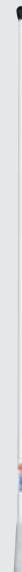
## AV17-P

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: 100W
- Gain: 6 dB
- Design:  
Stacked dipole brass elements

For other specifications  
– ask for a datasheet.

-P version:  
4ft Ref. no 014675



## AC15-BI

10 inches (250 mm) High quality UHF antenna. Designed for US and European cellular frequencies

- Frequency range:  
825-895 MHz  
880-960 MHz  
1710-1880 MHz  
1850-1990 MHz
- Power rating: 25W
- Gain: 2dB
- Design: Multi band ground plane antenna

For other specifications  
– ask for a datasheet.

Ref. no 014756







## EXTENSION MAST VHF/ UHF

Comrod extension mast is a reinforced, lightweight, dielectric antenna mast system consisting of 2 tubular fiberglass sections. It is designed for use on pleasure craft, but the high quality means it may be used on all kinds of vessels.

This masts are designed for Comrod's VHF and UHF models -BI.

- Design: All visible ferrules are made of Stainless Steel
- Bottom section: 8ft. (2.45 mtr)
- Mid section: 8ft. (2.45 mtr)
- Tension reliever: To eliminate pull from the weight of the cable

**Mounting:**  
The extension mast is mounted at the superstructure with UNS 1"x14 base, and 1 1/2" support at least 1.5ft. (0.5mtr) above the base. Support and base not included.

UPS shippable.

Ref. base section: **001475**  
Ref. mid section: **001465**



## AV51-BI / AV51-P

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: 100W
- Gain: 3dB
- Design: Coaxial dipole, brass elements

For other specifications - ask for a datasheet.

-BI version: Ref. no 014615  
-P version: Ref. no 014610

## AV60-BI / AV60-P

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

- Frequency range: 156-159 MHz, VSWR < 1.5:1  
159-162 MHz, VSWR < 2:1
- Power rating: 100W
- Gain: 6dB
- Design: Collinear 5/8 λ phased brass elements

For other specifications - ask for a data sheet.

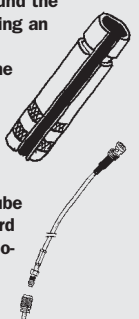
-BI version: Ref. 014632  
-P version: Ref. 014630



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

**-BI and -P version:**  
**-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
- Have BNC connectors allowing the antennas to be turned without twisting cable when installed
- Suitable Cable: RG58
- Come with radiating elements completely enclosed in polyurethane foam within the fiberglass tube
- Suggested installation: All standard mounting 1"x14 mounting accessories and Comrod extension masts



**-P version:**

- BSP 1"x11 Stainless Steel nut
- Suggested installation:
  - On a pipe with BSP 1"x11 female UNS 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.

## AM/FM60-BI

8ft (2.45 mtr) The AM/FM 60-BI is a broadcast receiving antenna.

- Frequency range: 0,15-108 MHz
- Design: Whip with transformer

For other specifications - ask for a datasheet.

Ref. no 014145



## MOUNTS & ACCESSORIES

**014975 4way Bracket** - Stainless Steel, for deck or side mounting. To go with all -BI versions. Standard 1"x14 threads

Ref. no 014975



**014985 Straight-Mount Bracket** - Stainless Steel for deck mounting. To go with all -BI versions. Standard 1"x14 threads.

Ref.no 014985



**014925 Mounting kit** - to go with: AT73H/3, AT53H/2 and Comrod Extension mast: 1" or 1 1/2" (25 - 38.5 MM.) diameter.

Ref. no 014925



**014970 Adapter Tube** - Stainless Steel - 1"x14 to be used when using -P version on a 4 Way Bracket/Straight-Mount Bracket

Ref.no 014970



**014990 Stand off Bracket** - Reinforced Nylon. To go with : AT73H/3, AT53H/2 and Comrod Extension mast: 1" or 1 1/2" (25 - 38.5 MM.) diameter.

Ref.no 014990



**014792 Shock Absorber** - fits standard 1"x14 antenna mount. Compatible with Comrod's -BI antenna series. Spring base made of Stainless Steel. Meant for antennas 4ft. and below.

Ref. no 014792



### RG 58 Cable with BNC and FME connector

- 2ft. (0.6m) (Pig Tail): Ref.no: 014770
- 16ft ( 5m): Ref.no: 014775
- 23ft (7m): Ref.no: 014780
- 40ft (12m): Ref.no: 014785



# COAXIAL CABLE – CABLE LOSS

## Maximum recommended length\*

MHz	RG 58	RG8, RG213
VHF	40' (12m)	62' (19m)
UHF	16' (5m)	26' (8m)

\*) 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 -BI antennas. The extra loss due to the pigtail is not measurable below 1000 MHz. At 1800 MHz the loss is below 10% - corresponding to range reduction of approximately 1-2 %.

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.

# FLEXIBLE OPTIONS

Components	Options																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
<b>ANTENNA ASSEMBLY</b>																	
VHF 3dB - 4ft 100W	X														Opt	Opt	X
VHF 6dB - 8ft 100W		X															X
VHF 3dB - 4ft + Cellular 156-162MHz 50W / 890-960MHz 25W			X												Opt	Opt	X
VHF 3dB - 4ft + Cellular/USA 156-162MHz 50W / 825-895MHz 25W				X											Opt	Opt	X
Cellular 6dB - 890-960MHz 100W 8ft Cellular 6dB - 890-960MHz 100W 4ft					X	X									Opt	Opt	X
Cellular/USA 6dB - 825-895MHz 100W 8ft Cellular/USA 6dB - 825-895MHz 100W 4ft						X	X								Opt	Opt	X
Cellular broadband								X							Opt	Opt	X
825-895 MHz								X							Opt	Opt	X
880-960 MHz								X							Opt	Opt	X
1710-1880 MHz								X							Opt	Opt	X
1850-1990 MHz								X							Opt	Opt	X
Cellular broadband									X								X
825-895 MHz									X								X
880-960 MHz									X								X
1710-1880 MHz									X								X
1850-1990 MHz									X								X
16ft VHF 6dB Matching HF Antenna AT53H/2		X								X		X		X			X
24ft VHF 6dB Matching HF Antenna AT73H/3		X								X	X	X		X	X		X
16ft HF 1kW PEP 1.6-30 MHz (AT53H/2) Matching 17ft VHF 6 dB Antenna			X							X		X		X			X
24ft HF 1kW PEP 1.6-30 MHz (AT73H/2) Matching 23ft VHF 6 dB Antenna			X							X	X	X		X	X		X

# 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.



**COMROD**  
REACHING FURTHER

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