MARINE CATALOGUE

Antennas & Accessories



2018







AC ANTENNAS **≪**

Antennas. They mean everything to us.

In a world where two-thirds of the globe is covered by water, marine antenna products are our world.

Since 1970, AC Antennas has been known for our relentless commitment in utilizing our +45 years of experience towards one pure goal: providing the best antennas in the world.

Today we have a large portfolio of marine, land based and portable antennas.

Our marine products are engineered and manufactured in Denmark to the highest possible quality level for vessels within the major marine markets of; commercial, fishing and yachting. All of our products are distributed worldwide through our professional partners.

We take pride in our products and our worldwide partners but even more in our loyal and faithful customers throughout decades.

Welcome to our world. Welcome to a world of antennas.

CX4

100011-T

Professional VHF-antenna recommended by major radio manufacturers:

- Excellent RF specifications
- Exceptional material quality
- The benchmark 0 dBd VHF antenna for the maritime industry
- Recommended for AIS-solutions
- Can also be used for land based solutions

Specifications





CX4 types

Product name	Product number	Frequency [MHz]	Connector [female]	Mount included
CX4-1	100012-T	146-162.5	N	N240F
CX4-2	100038-T	146-162.5	UHF	N162F
CX4-3	100015-T	146-162.5	UHF	-
CX4-4	100039-T	146-162.5	N	N275F
CX4-5	100040-T	146-162.5	UHF	N171F
CX4-6	100017-T	146-162.5	N	-
CX4-8	100018-T	135-150	UHF	-
CX4-9	100019-T	118-137	N	-
CX4-11	100013-T	154-174	UHF	-
CX4-12	100014-T	154-174	N	-

CX3 5/8

130002-T

Professional VHF-antenna recommended by major radio manufacturers:

- Excellent RF specifications
- Exceptional material quality
- The benchmark 3 dBd VHF antenna for the maritime industry
- Recommended for AIS-solutions
- Can also be used for land based solutions

Specifications





CX3 5/8 types

Product name	Product number	Frequency [MHz]	Connector [female]	Mount included
CX3 5/8	130002-T	156-162.5	UHF	N240F
CX3 5/8-1	130003-T	156-162.5	N	N240F
CX3 5/8-10	130004-T	156-162.5	UHF	-



THIS IS NOT AN ANTENNA.
IT IS 20 PARTS
THOROUGHLY PUT TOGETHER.





VHF

CELmar0-1

100000-P

Stainless steel sailboat omnidirectional VHF-antenna, suitable for rail or mast mounting:

- Excellent RF specifications
- · Exceptional material quality
- Designed for harsh environment conditions
- Tunable version available
- Recommended for AIS-solutions
- Suitable for DAB/FM reception
- Available with fibreglass radome too: CELmarVHF and CELmar1-1
- Can also be used for land based solutions

Specifications



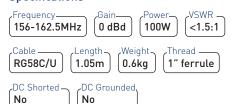
CELmar2-1

100005-P

High quality lightweight omnidirectional fibreglass antenna, equipped with ferrule:

- Excellent RF specifications
- Exceptional material quality
- Installation directly onto 1"-14TPI mounts
- Cable length variants available
- Recommended for AIS-solutions
- Suitable for DAB/FM reception
- Can also be used for land based solutions

Specifications





CELmar3-1

130000-P

High quality lightweight omnidirectional fibreglass antenna, equipped with ferrule:

- Excellent RF specifications
- Exceptional material quality
- Installation directly onto 1"-14TPI mounts
- Various cable length variants available
- Recommended for AIS-solutions
- Suitable for DAB/FM reception
- Can also be used for land based solutions

Specifications





N163F included

UHF(f)

VHFlight100

100024-C

Omnidirectional whip antenna in glass fibre suitable for leisure boats etc. The antenna is equipped with the installation friendly Celwave base:

- Excellent RF specifications
- Exceptional material quality
- Various cable and mounts available
- Suitable for DAB/FM reception



8 HF

KUM480

248000-P

Professional HF/SSB-antenna recommended by major radio manufacturers:

- Excellent RF specifications
- Exceptional material quality
- Works with Automatic Tuner Unit systems
- Wire and coax cable installations
- Tx/Rx or Rx only
- 0.15-30MHz for Rx coach only
- Sidefed
- Various mechanical installation options including ferrule and wall mounting
- Can also be used for land based solutions

Specifications



KUM600

260000-P

Professional HF/SSB-antenna recommended by major radio manufacturers:

- Excellent RF specifications
- Exceptional material quality
- Works with Automatic Tuner Unit systems
- Wire and coax cable installations
- Tx/Rx or Rx only
- 0.15-30MHz for Rx coach only
- Sidefed
- Various mechanical installation options including ferrule and wall mounting
- Available as 2- and 3-section models
- Can also be used for land based solutions

Specifications



KUM803

280300-T

Professional HF/SSB-antenna recommended by major radio manufacturers:

- Excellent RF specifications
- Exceptional material quality
- Works with Automatic Tuner Unit systems
- Wire and coax cable installations
- Tx/Rx or Rx only
- 0.15-30MHz for Rx coax only
- Sidefed
- Various mechanical installation options including wall and deck mounting
- Available as 2- and 3-section models
- Can also be used for land based solutions

Specifications



KUM903

290300-T

Professional HF/SSB-antenna recommended by major radio manufacturers:

- Excellent RF specifications
- Exceptional material quality
- Works with Automatic Tuner Unit systems
- Wire and coax cable installations
- Tx/Rx or Rx only
- 0.15-30MHz for Rx coax only
- Sidefed
- Various mechanical installation options including wall and deck mounting
- Available as 2- and 3-section models
- Can also be used for land based solutions



KUM121

212100-T

Professional HF-antenna recommended by major radio manufacturers:

KUM121 is a high quality omnidirectional active receiving HF antenna with excellent dynamic range in the entire bandwidth.

- Excellent RF specifications
- Exceptional material quality
- Low noise figure
- Diode protection of RF and DC inputs
- Grounded through mounting base
- Can also be used for land based solutions

Specifications



Max Supply Current 35 mA

Max Output-

KUM041

204100-T

KUM041 is a high quality omnidirectional active receiving HF antenna with excellent dynamic range in the entire bandwidth.

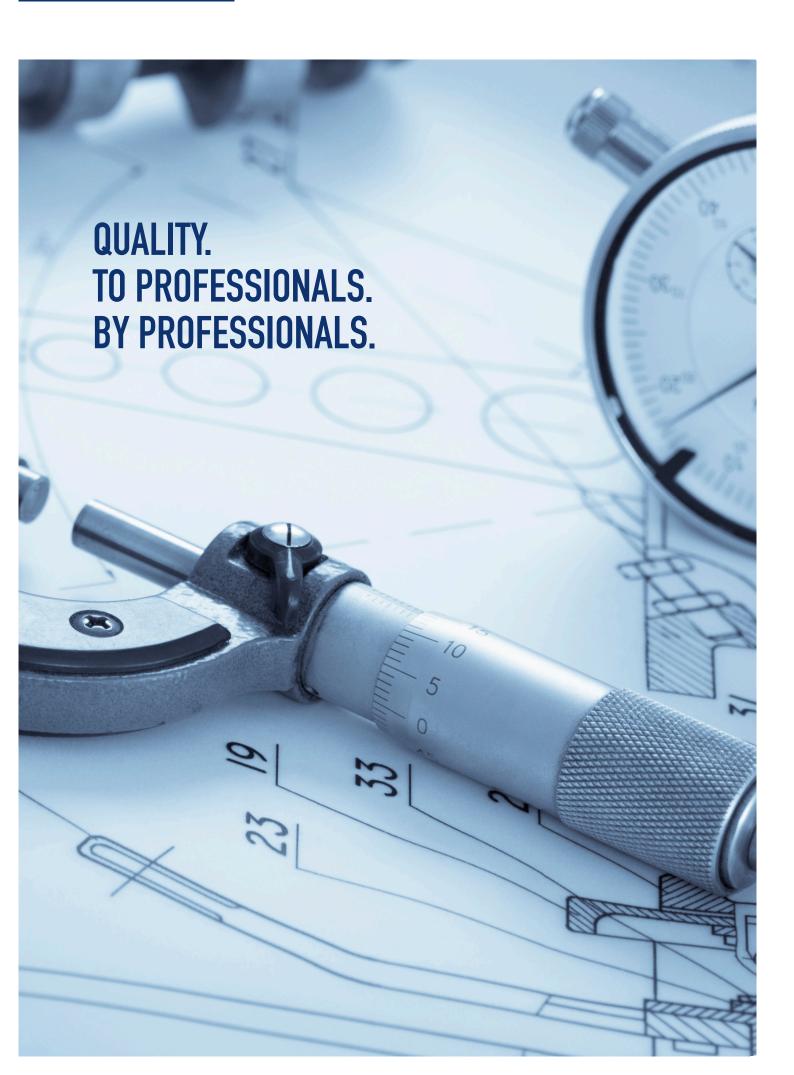
- Excellent RF specifications
- Exceptional material quality
- Low noise figure
- Diode protection of RF and DC inputs
- Grounded through mounting base
- Can also be used for land based solutions











CXU₁

300000-T

For use with radio telephone, two-way business radio and many other applications:

- Excellent RF specifications
- Exceptional material quality
- · Designed for harsh environment
- Various sub band antennas available
- Can also be used for land based solutions

Specifications

Yes



N(f) connector DC Grounded,

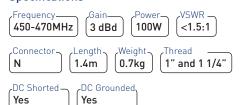
CXU3

330000-T

For use with radio telephone, two-way business radio and many other applications:

- Excellent RF specifications
- Exceptional material quality
- Designed for harsh environment
- Various sub band antennas available
- Can also be used for land based solutions

Specifications





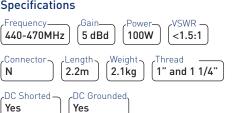
CXU4

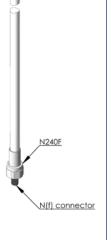
350000-T

For use with radio telephone, two-way business radio and many other applications:

- Excellent RF specifications
- Exceptional material quality
- Designed for harsh environment
- Various sub band antennas available
- Can also be used for land based solutions

Specifications





N240F

UHF/VHF2

400036-T

Omnidirectional dipole antenna covering two bands, marine VHF and mid -UHF subband:

- Excellent RF specifications
- · Exceptional material quality
- Designed for harsh environment
- Can also be used for land based solutions





4GMultiband

400006-T

Omnidirectional multiband antenna covering the cellular phone network bands simultaneously with data transmission, thus improving the communication performance for e.g. 3G, 4G, CDMA, UMTS, DECT, WLAN, GSM850/900/1800/1900, Bluetooth and EDGE:

- Excellent RF specifications
- Exceptional material quality
- Can also be used for land based solutions



Specifications



GPS

490000-P

Marine and land based antenna for the frequency 1575.42 MHz band. The GPS antenna can be installed directly on the deck, it withstands walking pressure:



- Exceptional material quality
- Can also be used for land based solutions



Specifications



VHF/GPS

490001-T

VHF/GPS is a VHF antenna with a combined helix GPS and GLONASS antenna for frequencies 1575.42 MHz & 1602 MHz incorporated:

- Excellent RF specifications
- Exceptional material quality
- Cable sets with filter available
- Designed for harsh environment
- Can also be used for land based solutions

Specifications



VHF/GPS types

Product name	Product number	Cable 1 connector	Cable 2 connector	Cable 3 connector
VHF/GPS	490001-T	-	-	-
VHF/GPS-01	490011-T *	N-female	UHF-male	-
VHF/GPS-02	490012-T *	BNC-female	TNC-male	-
VHF/GPS-03	490013-T *	N-female	N-male	TNC-male
VHF/GPS-04	490014-T *	TNC-male	UHF-male	-
VHF/GPS-05	490015-T *	BNC-male	TNC-male	UHF-male

No*: VHF/GPS antenna and filter included





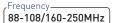
DAB-FM

400035-T

Professional omnidirectional dipole receiving antenna covers both the DAB frequency (160-250MHz) and the FM frequency (88-108MHz):

- Excellent RF specifications
- Exceptional material quality
- Designed for harsh environment
- Can also be used for land based solutions

Specifications



Connector Length Weight Thread 1.3m (0.5kg) Thread 1 1/4"





FAME1

400004-T

High quality fiberglass omnidirectional receiving DAB/FM/AM antenna:

- Excellent RF specifications
- Exceptional material quality
- Also available with 1" ferrule and sidefed cable.
- Designed for harsh environment
- Can also be used for land based solutions

Specifications







CB₆

100051-P

Lightweight fibreglass omnidirectional antenna for the citizen band:

- Excellent RF specifications
- Exceptional material quality
- Sidefed
- Designed for harsh environment

Specifications



DC Shorted DC Grounded Yes



FAME3

430012-T

High quality fiberglass omnidirectional receiving DAB/FM/AM antenna:

- Excellent RF specifications
- Exceptional material quality
- Also available with 1" ferrule and sidefed cable
- Designed for harsh environment
- Can also be used for land based solutions









N274F

900060-B



Universal Pole

Ø20-58mm

Anodised Aluminium, black

0.8kg 1 1/4"-11 TPI, male

N274FW

900061-B



Universal Pole

Ø20-58mm

Anodised Aluminium, white

0.8kg | 1 1/4"-11 TPI, male

N275F

900018-B



Universal Pole

Ø20-58mm

Anodised Aluminium, black

0.7kg | 1" 14 TPI, female

N275FW

900062-B



Universal Pole

Ø20-58mm

Anodised Aluminium, white

0.7kg 1" 14 TPI, female

N270F

900017-B



Heavy duty Pole

Ø30-75mm

Solid Brass, white

1.4kg 1 1/4"-11 TPI, male

N298F

900027-P



Universal Pole

Ø26-46mm

Stainless Steel

0.8kg 1 1/4"-11 TPI, male

N220F

900013-P



Universal Pole

Ø26-46mm

Stainless Steel

0.5kg 1"-14 TPI, male

N285F

900044-B



4-way Racket

Deck/wall

Chrome Brass

1.0kg | 1"-14 TPI, male

E179F

900037-B



Deck

Chrome brass Deck

0.7kg | 1 1/4"-11 TPI, male

E180F

900038-B



Deck

Stainless steel

0.3kg 1 1/4"-11 TPI, male

N288F

900046-B



Deck

Stainless steel

0.7kg 1"-14 TPI, male

N286F

900045-B



4-way Racket | Deck/wall

Stainless Steel

0.7kg 1"-14 TPI, male



900002-P



Universal Pole | Ø20-26mm

SS316 05/8" & Ø1"

0.2kg | 1"-14 TPI, female

N158F

900003-P



Universal Pole 020-26mm

SS316 | Ø5/8" & Ø1"

0.2kg | 1"-14 TPI, male

N162F

900004-P



Universal Pole

SS304 | Ø5/8" & Ø1"

0.2kg | 1"-14 TPI, female

N290F

900047-B



4-way ratchet

Deck/wall

Nylon

0.3kg | 1"-14 TPI, male

N171F

900006-B



Universal Pole | Ø30-61mm

SS316

0.7kg 1"-14 TPI, female

Option with ferrrule bolt: N171FB

N172F

900008-B



Universal Pole | Ø30-61mm

SS316 | Alignment beads

0.6kg | 1"-14 TPI, female

Option with ferrrule bolt: N172FB

N173F

900010-B



Universal Pole | Ø49-90mm

SS316 | Alignment beads

0.8kg | 1"-14 TPI, female

Option with ferrrule bolt: N173FB

N174F

900057-B



Universal Pole | Ø30-61mm

SS316 Alignment beads

0.7kg | 1"-14 TPI, female

Option with ferrrule bolt: N174FB

N095F

900000-B



Pole clamp | Ø30-100mm

SS316

1.2kg Ø21mm radome

Note: Set of 2*N095F per antenna

N115F

900001-B



Pole clamp | Ø38-70mm

SS316

1.8kg 040mm radome w/sleeve

Note: Set of 2*N115F per antenna

N245F

900039-P



Pole clamp | Ø31-60mm

SS316

0.4kg | Fits e.g. CX4-3

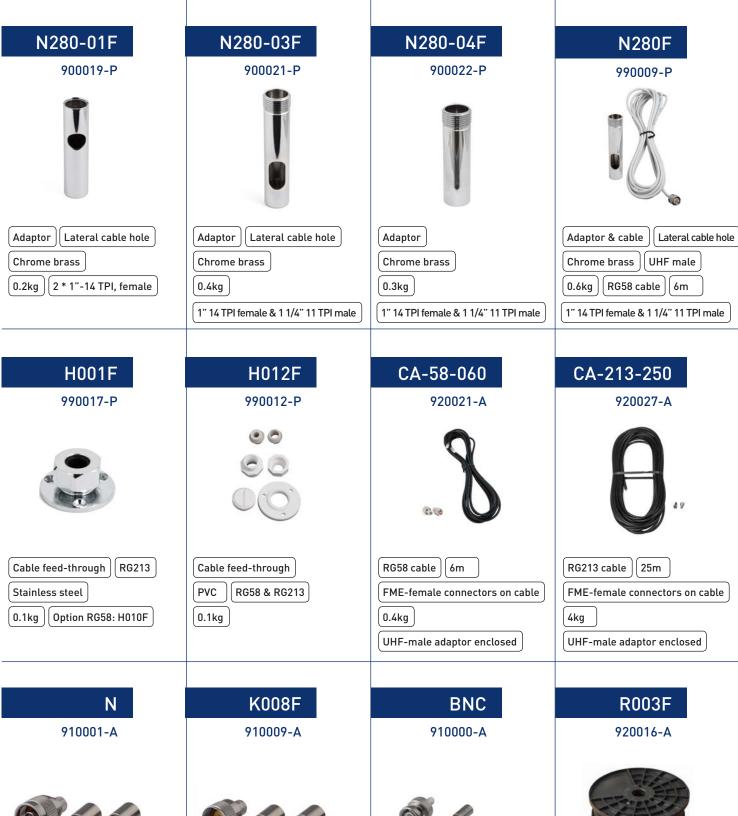
H022F

990013-A





0.3kg 9 kN



RG213/RG214

Connector

0.1kg | UHF-male

Crimp

RG58

BNC-male

Connector

Crimp

0.1kg

RG213/RG214

Connector

N-male

Crimp

0.1kg

R003F
920016-A

R658 cable 100m

4.2kg Option: R6213

Gain Reference

Gain is one of the main parameters of an antenna. The gain of an antenna is a figure stating how much energy this antenna transmits/receives in the main direction, compared to a reference antenna.

Gain =
$$10 \log \left(\frac{\text{ant.}}{\text{reference ant.}} \right)$$

Hypothetical the reference antenna is isotropic, which uniformly distributes energy in all directions.

This gain is stated as dBi.

Normally the reference antenna is a half wave dipole antenna and then the unit is $\mathsf{dBd}.$

Conversion between the two follows this simple equation:

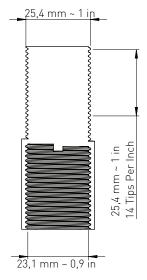
$$dBd = dBi-2.15$$

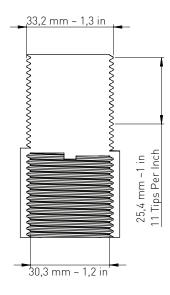
For marine use in most countries the gain is mentioned in "marine" dB which is non-existing. However, as the competition is using "marine" dB, AC Marine has decided to indicate gain in dBd and "marine" dB.

Below please find a table of relationship between dBd, dBi and "Marine" dB.

dBd	dBi	Marine dB
0	2.1	3
3	5.1	6
4.5	6.6	9
5	7.1	10

Mount Reference







Our products are designed and manufactured to provide exceptional performance and to withstand punishment from the rigorous marine environment.

We use latest generation of technology to continue pushing technical performance for the betterment of our products. Navigating complexity, unlocking potential.

We are cost effective and deliver on time. Always.

Welcome to AC Antennas.

