

MARINE CATALOGUE

Antennas & Accessories



2018

THE WORLD'S ULTIMATE ANTENNAS.



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

Frequency	Gain	Power	VSWR
146-162.5MHz	0 dBd	100W	<1.5:1
Connector	Length	Weight	Thread
UHF	1.26m	0.5kg	1" and 1 1/4"
DC Shorted	DC Grounded		
Yes	Yes		

**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

Frequency	Gain	Power	VSWR
156-162.5MHz	3 dBd	100W	<1.5:1
Connector	Length	Weight	Thread
UHF	2.6m	0.7kg	1" and 1 1/4"
DC Shorted	DC Grounded		
Yes	Yes		

**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 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.**

**WE CRIMP OUR ANTENNAS.
4-5 TIMES STRONGER BUILD-UP
DUE TO CRIMPING.**



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

Frequency	Gain	Power	VSWR
156-162.5MHz	0 dBd	100W	<1.5:1
Connector	Length	Weight	Thread
UHF	1.0m	0.4kg	5/8" 24TPI
DC Shorted	DC Grounded		
No	Yes		

**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

Frequency	Gain	Power	VSWR
156-162.5MHz	0 dBd	100W	<1.5:1
Cable	Length	Weight	Thread
RG58C/U	1.05m	0.6kg	1" ferrule
DC Shorted	DC Grounded		
No	No		

**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

Frequency	Gain	Power	VSWR
156-162.5MHz	3 dBd	100W	<1.5:1
Cable	Length	Weight	Thread
RG58C/U	2.7m	0.9kg	1" ferrule
DC Shorted	DC Grounded		
Yes	Yes		

**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

Specifications

Frequency	Gain	Power	VSWR
156-162.5MHz	0 dBd	100W	<1.5:1
Connector	Length	Weight	Thread
UHF	1.14m	0.3kg	1" ferrule
DC Shorted	DC Grounded		
No	Yes		



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 coax only
- Sidedfed
- Various mechanical installation options including ferrule and wall mounting
- Can also be used for land based solutions

Specifications

Frequency	Power	Max HF Voltage	
1.4-30MHz	500W	9kV	
Sections	Length	Weight	Static Capacity
2	4.8m	2kg	55pF

**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 coax only
- Sidedfed
- 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

Frequency	Power	Max HF Voltage	
1.4-30MHz	750W	9kV	
Sections	Length	Weight	Static Capacity
2	6m	2.5kg	70pF

**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
- Sidedfed
- 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

Frequency	Power	Max HF Voltage	
1.4-30MHz	1200W	18kV	
Sections	Length	Weight	Static Capacity
3	8m	7kg	100pF

**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
- Sidedfed
- 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

Frequency	Power	Max HF Voltage	
1.4-30MHz	1200W	18kV	
Sections	Length	Weight	Static Capacity
3	9m	8kg	100pF



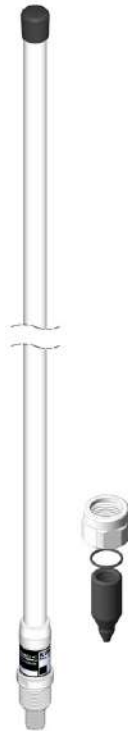
KUM121

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**

Frequency	DC Shorted	DC Grounded	Gain
0.15-30MHz	No	Yes	0dB
Connector	Length	Weight	IP2
UHF	1.3m	0.5kg	≥+50dBm
			IP3
			≥+28dBm
Supply Voltage	Max Supply Current	Max Output	
9-12V	35 mA	+10dBm	

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

**Specifications**

Frequency	DC Shorted	DC Grounded	
0.15-30MHz	No	Yes	
Connector	Length	Weight	IP3@10MHz
UHF	0.4m	0.4kg	≥+38dBm
Supply Voltage	Max Supply Current		
9-12V	30 mA		

NUKA ARCTICA

SEA TRIAL VESSEL FOR KUM121, APRIL-JUNE 2016.

**QUALITY.
TO PROFESSIONALS.
BY PROFESSIONALS.**



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

Frequency	Gain	Power	VSWR
450-470MHz	0 dBd	100W	<1.5:1
Connector	Length	Weight	Thread
N	0.8m	0.5kg	1" and 1 1/4"
DC Shorted	DC Grounded		
Yes	Yes		



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

Frequency	Gain	Power	VSWR
450-470MHz	3 dBd	100W	<1.5:1
Connector	Length	Weight	Thread
N	1.4m	0.7kg	1" and 1 1/4"
DC Shorted	DC Grounded		
Yes	Yes		



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

Frequency	Gain	Power	VSWR
440-470MHz	5 dBd	100W	<1.5:1
Connector	Length	Weight	Thread
N	2.2m	2.1kg	1" and 1 1/4"
DC Shorted	DC Grounded		
Yes	Yes		



UHF/VHF2

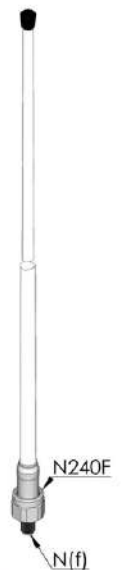
400036-T

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

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

Specifications

Frequency	Gain	Power	VSWR
146-162.5&420-440MHz	0 dBd	100W	<1.5/5:1
Connector	Length	Weight	Thread
N	1.3m	0.6kg	1" and 1 1/4"
DC Shorted	DC Grounded		
Yes	Yes		



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**

Frequency	Gain	Power	VSWR
890-960/1710-2690MHz	0 dBd	40W	<2/2.2:1
Connector	Length	Weight	Thread
N	0.5m	0.3kg	1" and 1 1/4"
DC Shorted	DC Grounded		
No	Yes		

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:

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

**Specifications**

Frequency	Gain	Supply voltage	VSWR
1575.42MHz	26dB	3-5.5V	<2:1
Connector	Length	Weight	Noise Figure
FME	0.05m	0.06kg	Typ. 1.35dB
DC Shorted	DC Grounded		
No	Yes		

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**

Frequency	Power	VSWR	
156-162.5/1575.42/1602MHz	35W	<2:1	
Connector	Length	Weight	Thread
N	1.1m	0.7kg	1" and 1 1/4"
Supply voltage	Current	Gain	
3.3-18V	Max 10, typ 7mA	0/18/18 dB	
DC Shorted	DC Grounded		
No	Yes		

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

Frequency	88-108/160-250MHz		
Connector	Length	Weight	Thread
N	1.3m	0.5kg	1" and 1 1/4"
DC Shorted	DC Grounded		
Yes	Yes		



FAME1

400004-T

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

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

Specifications

Frequency	0.15-30/88-108/160-250MHz		Gain
Connector	Length	Weight	Thread
UHF	1.3m	0.5kg	1" and 1 1/4"
DC Shorted	DC Grounded		
No	Yes		



CB6

100051-P

Lightweight fibreglass omnidirectional antenna for the citizen band:

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

Specifications

Frequency	Gain	VSWR	
26.8-27.5MHz	3 dBd	<1.5:1	
Cable	Length	Weight	Thread
RG58C/U	2.7m	0.8kg	1" ferrule
DC Shorted	DC Grounded		
Yes	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 sidedfed cable
- Designed for harsh environment
- Can also be used for land based solutions

Specifications

Frequency	0.15-30/88-108/160-250MHz		Gain
Connector	Length	Weight	Thread
UHF	2.7m	0.6kg	1" and 1 1/4"
DC Shorted	DC Grounded		
No	Yes		



**MORE THAN 90% OF OUR ORDERS
ARE SHIPPED WITHIN 48 HOURS.**



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

N157F

900002-P



Universal Pole Ø20-26mm
 SS316 Ø5/8" & Ø1"
 0.2kg 1"-14 TPI, female

N158F

900003-P



Universal Pole Ø20-26mm
 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 ferrule bolt: N171FB

N172F

900008-B



Universal Pole Ø30-61mm
 SS316 Alignment beads
 0.6kg 1"-14 TPI, female
 Option with ferrule bolt: N172FB

N173F

900010-B



Universal Pole Ø49-90mm
 SS316 Alignment beads
 0.8kg 1"-14 TPI, female
 Option with ferrule bolt: N173FB

N174F

900057-B



Universal Pole Ø30-61mm
 SS316 Alignment beads
 0.7kg 1"-14 TPI, female
 Option with ferrule 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 Ø40mm 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



Insulator
 PBT 100 kV
 0.3kg 9 kN

N280-01F

900019-P



- Adaptor
- Lateral cable hole
- Chrome brass
- 0.2kg
- 2 * 1"-14 TPI, female

N280-03F

900021-P



- Adaptor
- Lateral cable hole
- Chrome brass
- 0.4kg
- 1" 14 TPI female & 1 1/4" 11 TPI male

N280-04F

900022-P



- Adaptor
- Chrome brass
- 0.3kg
- 1" 14 TPI female & 1 1/4" 11 TPI male

N280F

990009-P



- Adaptor & cable
- Lateral cable hole
- Chrome brass
- UHF male
- 0.6kg
- RG58 cable
- 6m
- 1" 14 TPI female & 1 1/4" 11 TPI male

H001F

990017-P



- Cable feed-through
- RG213
- Stainless steel
- 0.1kg
- Option RG58: H010F

H012F

990012-P



- Cable feed-through
- PVC
- RG58 & RG213
- 0.1kg

CA-58-060

920021-A



- RG58 cable
- 6m
- FME-female connectors on cable
- 0.4kg
- UHF-male adaptor enclosed

CA-213-250

920027-A



- RG213 cable
- 25m
- FME-female connectors on cable
- 4kg
- UHF-male adaptor enclosed

N

910001-A



- Connector
- RG213/RG214
- Crimp
- 0.1kg
- N-male

K008F

910009-A



- Connector
- RG213/RG214
- Crimp
- 0.1kg
- UHF-male

BNC

910000-A



- Connector
- RG58
- Crimp
- 0.1kg
- BNC-male

R003F

920016-A



- RG58 cable
- 100m
- 4.2kg
- Option: RG213

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.

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

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 dBd.

Conversion between the two follows this simple equation:

$$\text{dBd} = \text{dBi} - 2.15$$

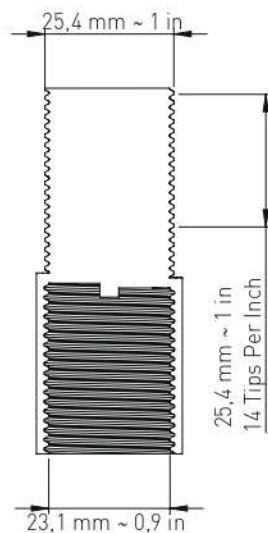
For marine use in most countries the gain is mentioned in "marine" dB which is non-existing. However, as the competition is using "marine" dB, AC Marine has decided to indicate gain in dBd and "marine" dB.

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

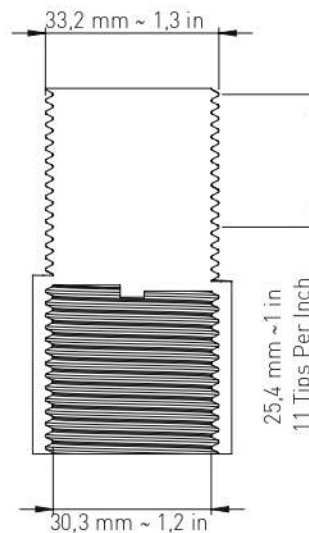
dBd	dBi	Marine dB
0	2.1	3
3	5.1	6
4.5	6.6	9
5	7.1	10

Mount Reference

1" - 14 TPI



1½" - 11 TPI



**MORE THAN 45 YEARS IN BUSINESS.
THANKS TO OUR CUSTOMERS.**



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.

AUTHORIZED DEALER

LINKWELL TELECOM SERVICES.

1/4, Puranik Building, Near Old Post Office,
Panvel, Navi Mumbai, Maharashtra, India-410 206.

Tel. No. : 022-27462199.

www.linkwelltelecom.com