

AC MARINE 

www.acmarine.dk

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AC MARINE

MARINE CATALOGUE

ANTENNAS & ACCESSORIES

AC MARINE

AC Marine is based in Birkerød, Denmark (approx. 30km north of Copenhagen) where AC Marine antennas and accessories for the marine market are manufactured and globally distributed.

A large stock of antennas is available for immediate shipment (24 hours ARO) from our 445 square meter stock.

ANTENNAS

AC Marine has a full line of marine antennas consisting of VHF, HF, UHF, Cellular, FM/AM, CB, Navtex, GPS, TV, dual-band, four-band and others, as well as large selection of mounting hardware. AC Marine is/has been one of the main suppliers for GMDSS systems world wide and is well known for their excellent quality.

AC Marine is manufacturing for all market segments: Commercial, Fishing and Yachting market.

Products are distributed through OEM customers, as well as distributors world wide.

AC Marine is well known for their flexibility and fast response to customer demands.

See also our website: www.acmarine.dk

TRANSDUCERS

Contact us also for Airmar transducers.

Airmar Technologies and AC Marine have established a joint venture Company: Airmar Europe and all transducers are sold through Airmar Europe.

See also our website: www.airmareurope.com

Airmar is a USA company based in Milford, New Hampshire manufacturing transducers for the marine and industrial market.

They are one of the most skilled and experienced manufacturers in the world and well know for their excellent quality.

Airmar manufactures marine transducers for most of the producers of echosounders/fishfinders throughout the world.

The factory consists of 8200 square meter with 3 acoustic test tanks. A large staff of R&D people are ready to assist customers in meeting their design needs.

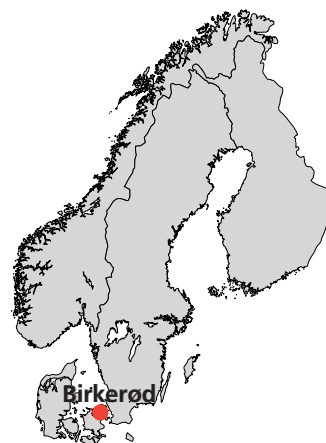


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Gain reference

Gain is one of the main parameters of an antenna. Normally gain is stated in the main direction of the antenna, and is measured as the difference in field strength between 2 antennas. I.e. the gain of an antenna is a figure stating how much energy this antenna transmits in the main direction, compared with a reference antenna.

As a reference antenna you normally use a halfwave dipole or an isotropic antenna.

Gain is normally stated in dB which is calculated as follows:

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

If the reference antenna is a dipole, gain is stated in dBd, and if the reference antenna is an isotropic antenna, gain is stated in dBi. If for instance the gain in dBi is known, the gain of the antenna in dBd can be calculated as follow:

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

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

General Description



CELmar0-1

Stainless steel sailboat antenna, suitable for rail or mast mounting.

CELmar1-1

Lightweight fiberglass antenna.

CELmar2

Lightweight fiberglass antenna for installation directly on 1" - 14 mounts. Available in 3 versions either with 6 m (20"), 10m (32") or 18 m (60") cable.

CELmar3-1

Mariner's favorite in many countries due to its excellent performance and dependability. Best in both gain and pattern.

For installation directly on 1" - 14 mounts.

CELmar VHF

Fiberglass sailboat antenna, suitable for rail or mast mounting.

Electrical Specifications

Model:	CELmar0-1	CELmar1-1	CELmar2	CELmar3-1	CELmar VHF
Frequency Range - [MHz]	156-162.5	149-162.5	156-162.5	156-162.5	156-162.5
VSWR	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Gain - [dBd/Marine dB]	0/3	0/3	0/3	3/6	0/3
Polarization	Vertical	Vertical	Vertical	Vertical	Vertical
Maximum Power [watts]	100	100	100	100	100
Impedance - [Ω]	50	50	50	50	50
DC-Grounded	No	Yes	No	Yes	No

Mechanical Specifications

Model:	CELmar0-1	CELmar1-1	CELmar2	CELmar3-1	CELmar VHF
Length (m/ft.)	1.0/3.3	1.26/4.1	1.04/3.4	2.7/8.9	0.96/3.1
weight (kg/lbs.)	0.36/0.8	0.3/0.8	0.3/0.8	0.75/1.6	0.2/0.44
Mounting Supplied	Mast Bracket	-	-	-	Mast Bracket

Connector Termination

CELmar0-1	UHF Female
CELmar1-1	UHF Female
CELmar2-1	6 m/20 ft. RG58C/U Cable
CELmar2-2	18 m/60 ft. RG58C/U Cable
CELmar2-3	10 m/32 ft. RG58C/U Cable
CELmar3-1	6,5 m/22 ft. RG58C/U Cable
CELmar VHF	UHF Female

Note:

The CELmar0-1 and CELmar2-1 are available in different variations - check pricelist for more info or contact us.

All information contained in the present brochure is subject to confirmation at time of ordering

Please visit us on the internet at <http://www.acmarine.dk>

General Description



GP2M 5/8

A 5/8 wave ground plane antenna. Suitable for fishing/commercial applications designed for mounting on a 27 mm (0.9") pipe.

The GP2M 5/8 (GP2M 5/8-2) can also be supplied for frequency range 146-174 MHz with a cutting chart included and bandwidth is 2% of F₀.

CX4

AC Marine's bestseller throughout many years. The CX4 has a wide vertical radiation pattern and is suitable for all types of boats.

Note the wide frequency bandwidth.

CX3 5/8

The CX3 5/8 VHF marine antenna is designed for today's high performance power boats, fishing and commercial use. The antenna provides 3 dBd (6 marine dB) gain for max. performance even in high seas.

Electrical Specifications

Model:	GP2M 5/8	CX4	CX3 5/8
Frequency Range - [MHz]	156-162.5	146-162.5	156-162.5
VSWR	< 1.5:1	< 1.5:1	< 1.5:1
Gain - [dBd/Marine dB]	3/6	0/3	3/6
Polarization	Vertical	Vertical	Vertical
Connector Termination	UHF-Female	UHF-Female	UHF-Female
Maximum Power [watts]	250	100	100
Impedance - [Ω]	50	50	50
DC-Grounded	Yes	Yes	Yes

Mechanical Specifications

Model:	GP2M 5/8	CX4	CX3 5/8
Length - [m/ft.]	1.35/4.4	1.26/4.1	2.58/8.5
Weight - [kg/lbs.]	1.4/3.1	0.5/1.10	0.67/1.5
Mounting Supplied	-	See right column	See right column

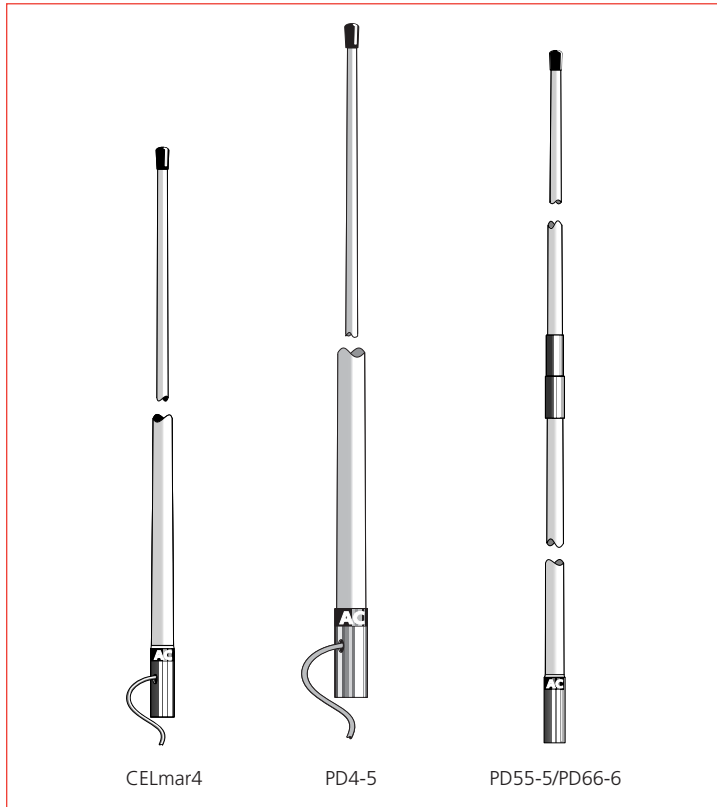
Different Types

Type:	Frequency (MHz)	Mounting Supplied
CX4-0	To be specified	N-female connector
CX4-1	146-162,5	With N-female connector and N240F
CX4-2	146-162,5	With N162F Mast Bracket
CX4-3	146-162,5	-
CX4-4	146-162,5	With N-female connector and N275F
CX4-5	146-162,5	N161F Mast Bracket
CX4-6	146-162,5	With N-female connector
CX4-8	135-150	-
CX4-9	118-137	-
CX4-11	154-174	-
CX3 5/8-0	To be specified	N-female connector
CX3 5/8-10	156-162,5	-
CX3 5/8-2	149-156,0	N275F
CX3 5/8-4	149-156,0	With N-female connector
CX3 5/8-5	149-156,0	With N-female connector and N240F

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Please visit us on the internet at <http://www.acmarine.dk>

General Description



CELmar4

High quality VHF antenna. Same specifications/manufactured like best seller CX4. Only difference being the CELmar4 has a chrome ferrule and 18 m RG58 cable.

PD4-5

The PD4-5 antenna is more efficient than the CELmar3. Its 2.9 m (9") length provides improved performance, however does not need an upper support. The PD4-5 is the choice of many pleasure boat owners as well as large commercial vessels.

PD55-5/PD66-6

These 2 VHF antennas feature excellent performance.

For installation on 1" - 14 mounts together with N200F upper support.

Electrical Specifications

Model:	CELmar4	PD4-5	PD55-5	PD66-6
Frequency Range - [MHz]	146-162.5	156-162.5	156-162.5	156-162.5
VSWR	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Gain - [dBd/Marine dB]	0/3	3/6	4.5/9	4.5/9
Polarization	Vertical	Vertical	Vertical	Vertical
Connector Termination	18 m/60 ft. RG58	6 m/20 ft. RG58C/U	6 m/20 ft. RG58C	6 m/20 ft. RG58
Maximum Power [watts]	100	100	100	100
Impedance - [Ω]	50	50	50	50
DC-Grounded	Yes	Yes	Yes	Yes

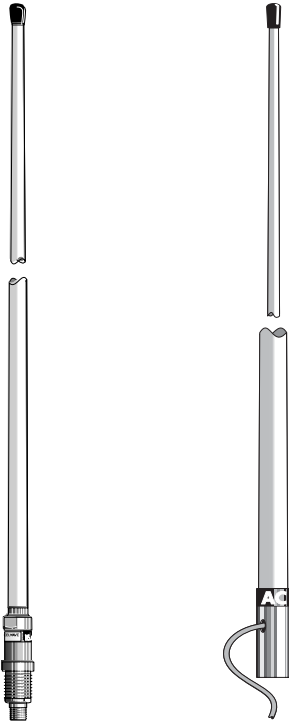
Mechanical Specifications

Model:	CELmar4	PD4-5	PD55-5	PD66-6
Length - [m/ft.]	1.26/4.1	2.8/9.2	5.4/17.7	7.2/23.6
Weight - [kg/lbs.]	1.25/2.8	1.26/2.8	2.5/5.5	2.8/6.1
Mounting Supplied	-	-	-	-

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General Description



CELtwin1

CELtwin2

CELtwin1 and CELtwin2

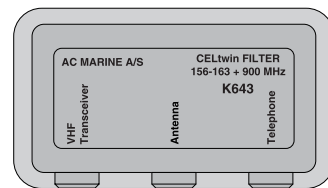
A dual band antenna where, with help of a filter only one antenna covers 2 frequency bands in marine VHF and cellular. Especially useful when limited space is available.

The CELtwin1 types are for GSM and CELtwin2 for AMPS applications.

Mounting Possibilities:

- CELtwin1, incl. mast bracket N162F
- CELtwin1-2 (antenna only)
- CELtwin1-3, incl. N240F
- CELtwin2, incl. 6 m (18") RG58C/U cable

Filter is included with all above configurations.



K643F

Electrical Specifications

Model:	CELtwin1	CELtwin2
Frequency Range - [MHz]	156-162.5/870-960	156-162.5/825-890
VSWR VHF	< 1.5:1	< 1.5:1
VSWR Cellular	< 2:1	< 2:1
Gain - [dBd/Marine dB]	0/3	0/3
Polarization	Vertical	Vertical
Connector Termination	N-Female	6 m/18ft. RG58/U Cable
Maximum Power [watts]	25	25
Impedance - [Ω]	50	50
DC-Grounded	No	No

Mechanical Specifications

Model:	CELtwin1	VHF/gps
Length - [m/ft.]	1.1/3.6	2.5/8.2
Weight - [kg/lbs.]	0.5/1.1	0.75/1.6
Mounting Supplied	Please see text above	-

Electrical Specifications

Model:	K643F
Insertion Loss	< 0.25
Isolation - [dBd]	50
Connector Type	3 x FME
Power - [watts]	25

Mechanical Specifications

Model:	K643F
Dimensions - L x W x H - [mm]	66 x 30 x 48
Weight - [gr/lbs.]	110/0.024

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Please visit us on the internet at <http://www.acmarine.dk>

General Description



GPS

The GPS marine antenna is for the frequency 1575.42 MHz and easy to install.

The antenna can be installed directly on the deck - no problem to walk on the antenna - or on a rail mount or any of the 1" - 14 standard marine mounts (together with adaptor N225F).

Adaptor cables are available for the different manufacturers GPS receivers with FME connector to fit the GPS and the necessary connector for the manufacturer such as SMA, SMB, MCX, MMCX, TNC, BNC, or others

VHF/GPS

The VHF/GPS marine antenna is for the frequencies 156-162,5 and 1575.42MHz. The GPS antenna is a helix type installed in the top of the antenna. A separate filter is included. (See below picture).

The GPS has a built-in LNA. The VHF/GPS antenna has the AC Marine rugged design and quality. And can be used with the standard AC Marine mounts.

Includes 2 sets cables:
1m with FME and UHF (for VHF radio)
0,3m with FME and N(for antenna)

Electrical Specifications

Model:	GPS	GPS/VHF
Frequency Range - [MHz]	1575.42	156-162,5/1575,42
Power	3.0-5.5 VDC	35W/3-5VDC
VSWR	< 2:1	<2:1
Gain - [dBd/Marine dB]	26	0/18
Impedance - [Ω]	50	50

Mechanical Specifications

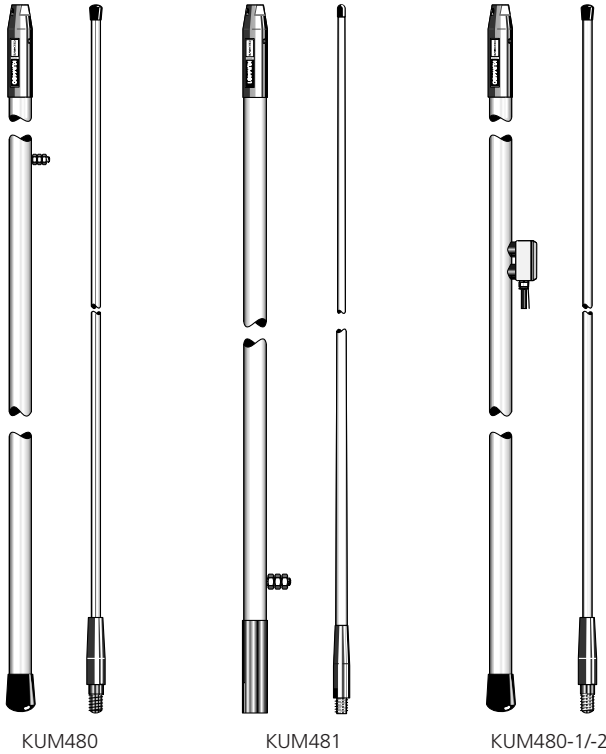
Model:	GPS	GPS/VHF
Material	ABS, Brass, St. Steel	-
Dimensions [mm] / Length [m/ft]	47 x 51	1.1/3.6
Weight - [kg/lbs]	0.06/0.16	0.6/1.6
Connector	FME Male	N-Female
Mounting Supplied	-	N240F



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General Description



KUM480/KUM481

The 4.8m (16') HF/SSB antenna balances length with performance. A 2-section construction.

The KUM480 is for mast mounting, and the KUM481 for mounting directly on 1"-14 threaded mounts.

KUM480-1

With connection box for use when using coaxial cable.

KUM480-2

With connection transformer box for receiving purpose only.

The transformer is recommended if the antenna is used at low frequencies

(0.15-30MHz) or when long cable feeding is necessary.

KUM481 can also be delivered with connection box or connection transformer box on request.

Mounting hardware available as option:

For mast mounting: N070F, N075F, N080F, N085F and N090F (see page 26 for details)
 Note: Two clamps required for each antenna.
 For KUM481 a N200F upper support is required.

The connection boxes can be purchased separately as follows:

- K483F: Connection box
- K493F: Connection Transformer box

Electrical Specifications

Model:	KUM480	KUM481
Frequency Range - [MHz]	1.4-30	1.4-30
Polarization	Vertical	Vertical
Insulation Resistance	>10 E9	>10 E9
Maximum Power [watts]	500	500
Static Capacity - [pF]	55	55
Maximum HF Voltage - [kV]	9	9

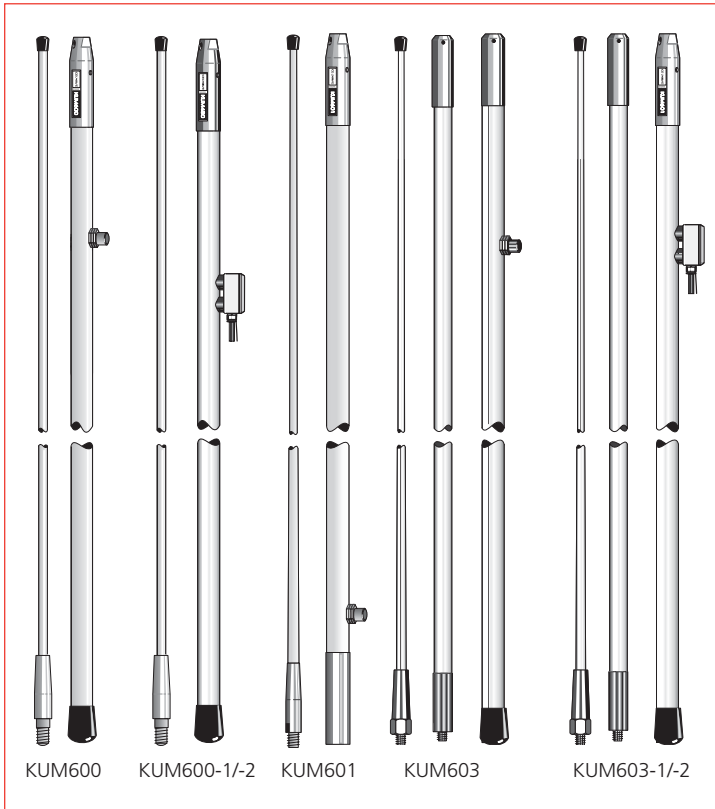
Mechanical Specifications

Model:	KUM480	KUM481
Length - [m/ft.]	4.8/15.7	4.8/15.7
Weight - [kg/lbs.]	2/4.4	2.2/4.9
Windload at 160 km/h - [N]	99	99
Mounting Supplied	-	-
Color	White	White

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Please visit us on the internet at <http://www.acmarine.dk>

General Description



KUM600/KUM601/KUM603

A 6m HF antenna as an alternative to the KUM480/481 and KUM700/701/703/731.

The **KUM600** and **KUM601** are 2-section antennas, where the **KUM603** is a 3-section antenna, which makes transportation easier.

KUM600 and **KUM603** are for mast mounting and **KUM601** for mounting directly on 1"-14 threaded mounts.

KUM600-1 or KUM603-1

With connection box for use when using coaxial cable.

KUM600-2 or KUM603-2

With connection transformer box for receiving purpose only.

The transformer is recommended if the antenna is used at low frequencies (0.15-30MHz) or when long cable feeding is necessary.

KUM601 can also be delivered with connection box or connection transformer box on request.

Mounting hardware available as option:

For mast mounting: N070F, N075F, N080F, N085F and N090F (see page 26 for details)
 Note: Two clamps required for each antenna.
 For KUM601 a N200F upper support is required.

The connection boxes can be purchased separately as follows:

- K483F: Connection box
- K493F: Connection Transformer box

Electrical Specifications

Model:	KUM600	KUM601	KUM603
Frequency Range - [MHz]	1.4-30	1.4-30	1.4-30
Polarization	Vertical	Vertical	Vertical
Maximum Power [watts]	750	750	750
Insulation Resistance	> 10	> 10	> 10 E9
Static Capacity - [pF]	70	70	70
Maximum HF Voltage - [kV]	9	9	9

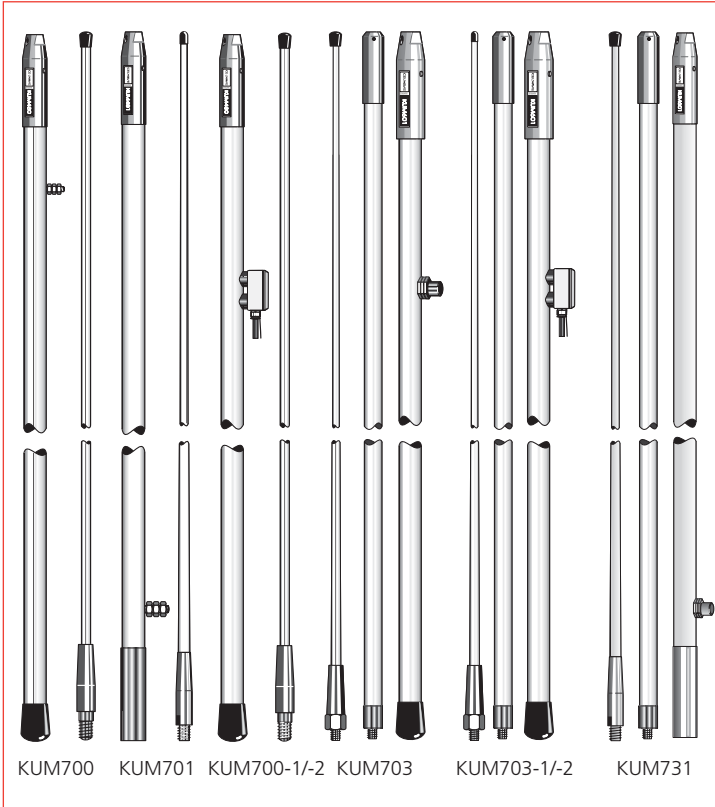
Mechanical Specifications

Model:	KUM600	KUM601	KUM603
Length - [m/ft.]	6/19.7	6/19.7	6/19.7
Weight - [kg/lbs.]	2.5/5.6	2.7/6	2.5/5.6
Windload at 160 km/h - [N]	150	150	150
Mounting Supplied	-	-	-
Color	White	White	White

All information contained in the present brochure is subject to confirmation at time of ordering

Please visit us on the internet at <http://www.acmarine.dk>

General Description



KUM700/KUM701/KUM703/KUM731

Four different 7m (22') HF antennas. These HF/SSB antennas provide an efficient balance between length and performance:

KUM700: 2 section for mast mounting

KUM703: 3 section for mast mounting

KUM701: 2 section for mounting directly on 1"-14 threaded mounts.

KUM731: 3 section for mounting directly on 1"-14 threaded mounts.

KUM700-1 or KUM703-1

With connection box for use when using coaxial cable.

KUM700-2 or KUM703-2

With connection transformer box for receiving purpose only.

The transformer is recommended if the antenna is used at low frequencies (0.15-30MHz) or when long cable feeding is necessary.

KUM701 or KUM731 can also be delivered with connection box or connection transformer box on request.

Mounting hardware available as option:

For mast mounting: N070F, N075F, N080F, N085F and N090F (see page 26 for details)

Note: Two clamps required for each antenna.

For KUM701 and KUM731 a N200F upper support is required.

The connection boxes can be purchased separately as follows:

K483F: Connection box

K493F: Connection Transformer box

Electrical Specifications

Model:	KUM700	KUM701	KUM703	KUM731
Frequency Range - [MHz]	1.4-30	1.4-30	1.4-30	1.4-30
Polarization	Vertical	Vertical	Vertical	Vertical
Maximum Power [watts]	1000	1000	1000	1000
Insulation Resistance	> 10 E9	> 10 E9	> 10 E9	> 10 E9
Static Capacity - [pF]	80	80	80	80
Maximum HF Voltage - [kV]	9	9	9	9

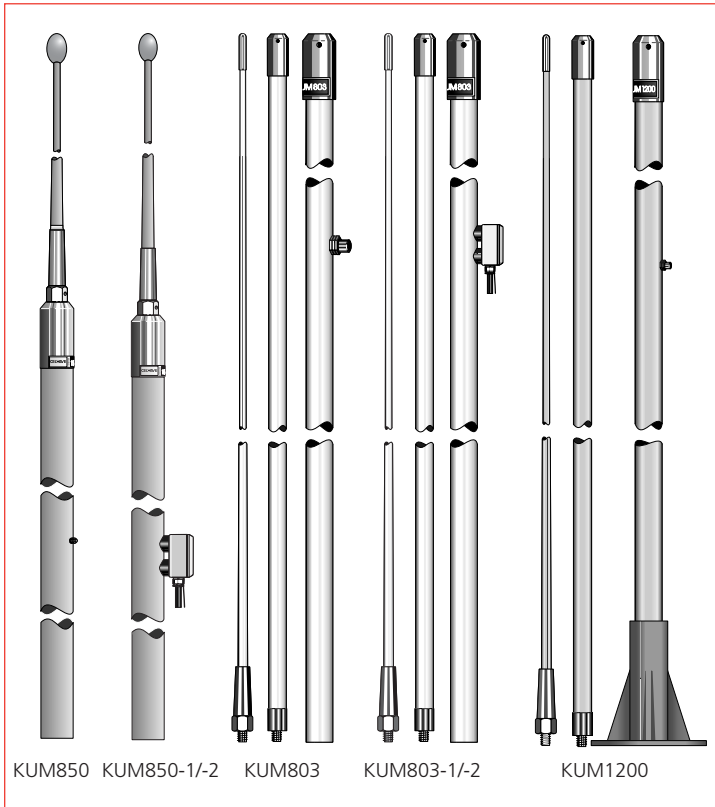
Mechanical Specifications

Model:	KUM700	KUM701	KUM703	KUM731
Length - [m/ft.]	7/23	6.7/22	7/23	6.8/22.3
Weight - [kg/lbs.]	3/6.6	8/17.6	3.2/7	3/6.7
Windload at 160 km/h - [N]	161	161	161	161
Mounting Supplied	-	-	-	-
Color	White	White	White	White

All information contained in the present brochure is subject to confirmation at time of ordering

Please visit us on the internet at <http://www.acmarine.dk>

General Description



KUM803/KUM850/KUM1200

The 8m KUM850 and KUM803 are one of the most popular marine HF antennas used for commercial and fishing applications due to the sturdy construction and excellent performance.

The **KUM1200** is a rugged self-supporting antenna whip with 2000W max. power.

KUM850: 2-section for mast mounting

KUM803: 3-section for mast mounting

KUM1200: 3-section for deck mounting

KUM803-1 or KUM850-1

With connection box for use when using coaxial cable.

KUM803-2 or KUM850-2

With connection transformer box for receiving purpose only.

The transformer is recommended if the antenna is used at low frequencies (0.15-30MHz) or when long cable feeding is necessary.

Mounting hardware available as option:

N100F, N105F clamp for welding
N110F and N115F clamp for sidemast mounting

Note: Two clamps required for each antenna (see page 26 for details).

The connection boxes can be purchased separately as follows:

K487F: Connection box

K537F: Connection Transformer box

Electrical Specifications

Model:	KUM850	KUM803	KUM1200
Frequency Range - [MHz]	1.4-30	1.4-30	1.4-30
Polarization	Vertical	Vertical	Vertical
Maximum Power [watts]	1200	1200	2000
Insulation Resistance	> 10 E9	> 10 E9	> 10 E9
Static Capacity - [pF]	100	100	220
Maximum HF Voltage - [kV]	18	18	18

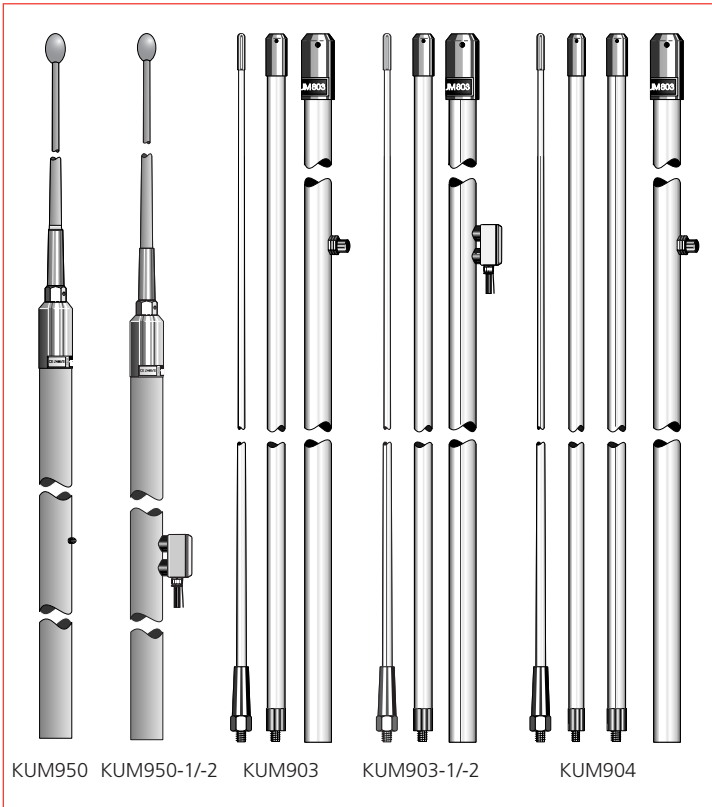
Mechanical Specifications

Model:	KUM850	KUM803	KUM1200
Length - [m/ft.]	8.2/27	8/26	12/39.4
Weight - [kg/lbs.]	7/15.5	8.4/18.7	20/44.2
Windload at 160 km/h - [N]	327	327	800
Mounting Supplied	Option See Page 26	-	Deckmount
Color	White	White	White

All information contained in the present brochure is subject to confirmation at time of ordering

Please visit us on the internet at <http://www.acmarine.dk>

General Description



Electrical Specifications

Model:	KUM950	KUM903	KUM904
Frequency Range - [MHz]	1.4-30	1.4-30	1.4-30
Polarization	Vertical	Vertical	Vertical
Maximum Power [watts]	1200	1200	1200
Insulation Resistance	> 10 E9	> 10 E9	> 10 E9
Static Capacity - [pF]	100	100	100
Maximum HF Voltage - [kV]	18	18	18

Mechanical Specifications

Model:	KUM950	KUM903	KUM904
Length - [m/ft.]	9.2/30	9.05/9.5	9.35/30.6
Weight - [kg/lbs.]	7.5/16.6	8.6/19	7.0/17.3
Windload at 160 km/h - [N]	347	347	347
Mounting Supplied	Option See Page 26		
Color	White	White	White

KUM903/KUM904/KUM950

The 9m HF antennas are similar in design as the 8m KUM803/KUM850 antennas, but with an extended 1m (3.3') length.

KUM903: 3-section for mast mounting

KUM904: 4-section for mast mounting

KUM850: 2-section for mast mounting

The KUM903 and now the new KUM904 are especially manufactured to make transportation easier/cheaper.

KUM903-1 or KUM950-1

With connection box for use when using coaxial cable.

KUM903-2 or KUM950-2

With connection transformer box for receiving purpose only.

The transformer is recommended if the antenna is used at low frequencies (0.15-30MHz) or when long cable feeding is necessary.

KUM904 can also be delivered with connection box or connection transformer box on request.

Mounting hardware available as option:

N100F, N105F clamp for welding
N110F and N115F clamp for sidemast mounting

Note: Two clamps required for each antenna (see page 26 for details).

The connection boxes can be purchased separately as follows:

K487F: Connection box

K537F: Connection Transformer box

General Description



DCS1 / DCS3/PCS3 / DCS5/PCS5 / CEL21/CEL24

DCS1, DCS3, PCS3, DCS5, and PCS5

These antennas are designed for Personal Communications Network applications in the 1710 to 1990 MHz band.

Premium quality materials are used to prevent galvanic corrosion.

A 18 mm (0.7") diameter fibreglass radome protects the radiating elements from hostile environments.

Radiating elements are made of copper.

The antennas can be used in any climate and withstand icing, salt air and acid rain.

CEL21

The CEL21 is for UMTS(3G) cellular application.

The CEL21 has the same rugged design as all other AC Marine antennas.

CEL24

CEL24 is for various cellular application, as well as for Wi-Fi network.

The CEL24 has the same rugged design as all other AC Marine antennas.

Vertical Beamwidth: 12 degrees (+6/-6).

Electrical Specifications

Model:	DCS1	DCS3	PCS3	DCS5	PCS5	CEL21	CEL24
Frequency Range - [MHz]	1710 - 1880	1710 - 1880	1850 - 1990	1710 - 1880	1850 - 1990	1920 - 2170	2310-2485
VSWR	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Gain - [dBd/Marine dB]	0/3	3/6	3/6	5/10	5/10	5/10	6/12
Polarization	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Connector Termination	N-Female	N-Female	N-Female	N-Female	N-Female	N-Female	N-Female
Maximum Power [watts]	150	150	150	150	150	80	80
Impedance - [Ω]	50	50	50	50	50	50	50
DC-Grounded	Yes	Yes	Yes	Yes	Yes	-	-

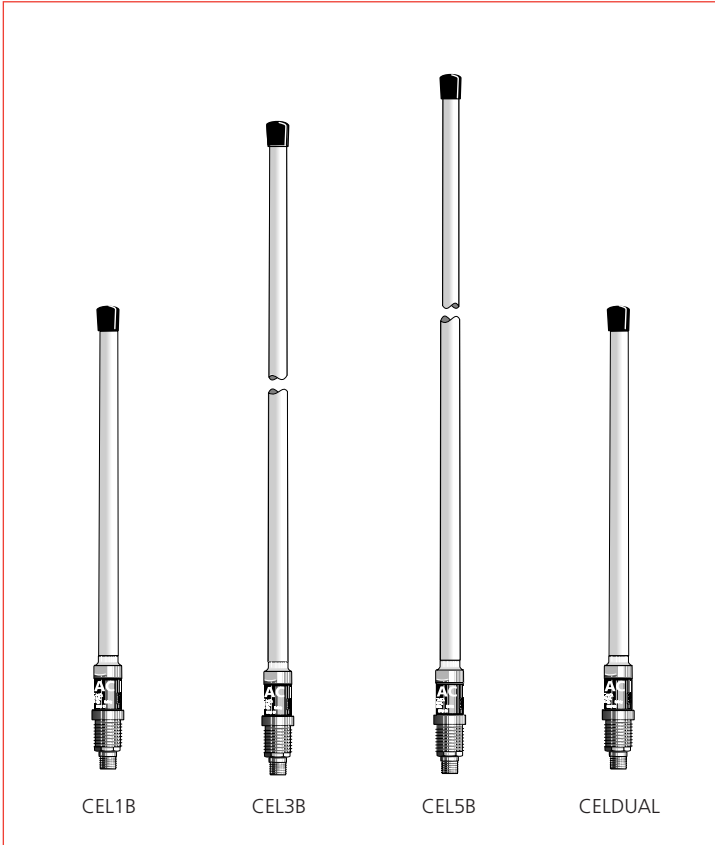
Mechanical Specifications

Model:	DCS1	DCS3	PCS3	DCS5	PCS5	CEL21	CEL24
Length - [m/ft.]	0.28/0.9	0.6/1.97	0.6/1.97	0.84/2.76	0.84/2.75	0.64/2.1	0.9/2.95
Weight - [kg/lbs.]	0.3/0.7	0.4/0.88	0.4/0.88	0.4/0.88	0.4/0.88	0.41/0.9	0.6/1.35
Mounting Supplied	N240F	N240F	N240F	N240F	N240F	N240F	-

All information contained in the present brochure is subject to confirmation at time of ordering

Please visit us on the internet at <http://www.acmarine.dk>

General Description



CEL1B, CEL3B and CEL5B

The CEL series of marine antennas for cellular applications are ruggedly designed to perform in the most demanding environments.

All models feature copper and copper alloy internal construction.

CELdual

A Dual band antenna, where one antenna covers two frequencies: GSM and DCS.

The CELdual has the same rugged design as all other AC Marine antennas.

Note:

The CEL3B is also available in an 2.4 m (8") version or without N240F (CEL3B-2).

Electrical Specifications

Model:	CEL1B	CEL3B	CEL5B	CELdual
Frequency Range - [MHz]	890-960	890-960	890-960	890-960/1710-1880
VSWR	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Gain - [dBd/marine dB]	0/3	3/6	5/10	0/3
Polarization	Vertical	Vertical	Vertical	Vertical
Connector Termination	N-Female	N-Female	N-Female	N-Female
Maximum Power [watts]	100	100	250	20/10
DC-Grounded	Yes	Yes	Yes	Yes

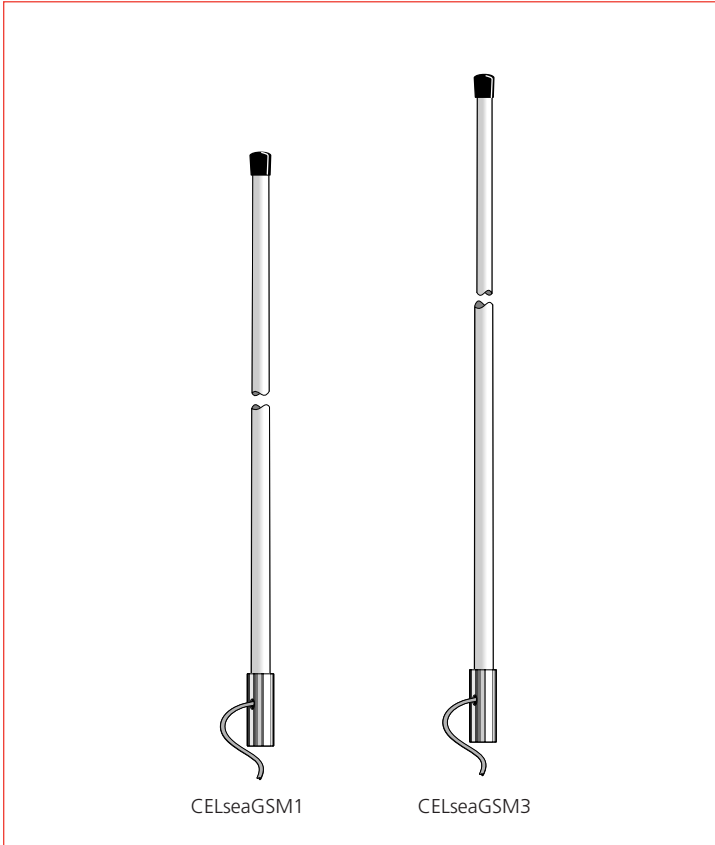
Mechanical Specifications

Model:	CEL1B	CEL3B	CEL5B	CELdual
Length - [m/ft.]	0.44/1.44	1.1/3.6	1.5/4.9	0.44/1.44
Weight - [kg/lbs.]	0.4/0.9	0.85/1.9	1/2.2	0.3/0.67
Mounting Supplied	N240F	N240F	N240F	N240F

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Please visit us on the internet at <http://www.acmarine.dk>

General Description



CELseaGSM1

CELseaGSM3

CELseaGSM1 and CELseaGSM3

The CELsea series of marine antennas for cellular GSM applications are ruggedly designed to perform in the most demanding environments.

Both models feature copper and copper alloy internal construction.

For installation on 1"-14 mounting hardware.

CELfour

New 4-band cellular antenna covering all US, European and Asian frequencies.

Rugged design to withstand the all weather conditions.

Electrical Specifications

Model:	CELseaGSM1	CELseaGSM3	CELfour
Frequency Range - [MHz]	890-960	890-960	825-895/880-960/1710-1880/1850-1990
VSWR	< 1.5:1	< 1.5:1	< 1.5:1
Gain - [dBd/marine dB]	0/3	3/6	0/3
Polarization	Vertical	Vertical	Vertical
Connector Termination	6 m/20 ft. RG58C/U	6 m/20 ft. RG58C/U	N-Female
Maximum Power [watts]	50	50	25w
Impedance - [Ω]	50	50	50
DC-Grounded	Yes	Yes	Yes

Mechanical Specifications

Model:	CELseaGSM1	CELseaGSM3	CELfour
Length - [m/ft.]	0.5/1.64	1.13/3.7	0.1/0.32
Weight - [kg/lbs.]	0.4/0.9	0.6/1.3	0.49/1.1
Mounting Supplied	-	-	N240F

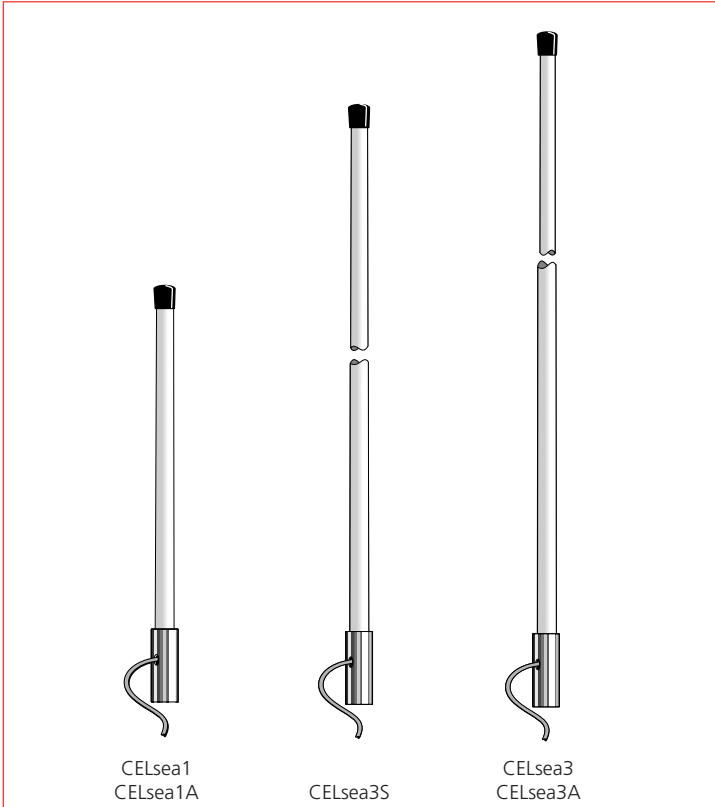


CELfour

All information contained in the present brochure is subject to confirmation at time of ordering

Please visit us on the internet at <http://www.acmarine.dk>

General Description



CELsea1, CELsea1A, CELsea3, CELsea3A and CELsea3S

The CELsea series of marine antennas for cellular applications are ruggedly designed to perform in the most demanding environments.

All models feature copper and copper alloy internal construction.

For installation on 1"-14 mounting hardware.

Electrical Specifications

Model:	CELsea1	CELsea1A	CELsea3	CELsea3A	CELsea3S
Frequency Range - [MHz]	825-890	806-866	825-890	806-866	825-890
VSWR	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Gain - [dBd/Marine dB]	0/3	0/3	3/6	3/6	3/6
Polarization	Vertical	Vertical	Vertical	Vertical	Vertical
Connector Termination	6 m/20 ft. RG58C/U	6 m/20 ft. RG58C/U	6 m/20 ft. RG58C/U	6 m/20 ft. RG58C/U	6 m/20 ft. RG58C/U
Maximum Power [watts]	100	100	100	100	100
Impedance - [Ω]	50	50	50	50	50
DC-Grounded	Yes	Yes	Yes	Yes	Yes

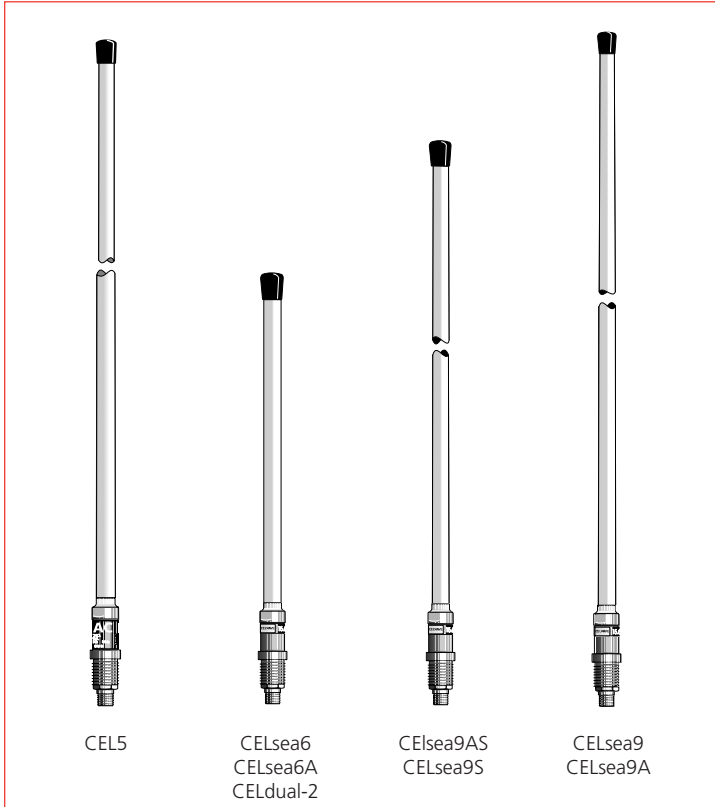
Mechanical Specifications

Model:	CELsea1	CELsea1A	CELsea3	CELsea3A	CELsea3S
Length - [m/ft.]	0.5/1.64	0.5/1.64	2.4/7.87	2.4/7.87	1.1/3.6
Weight - [kg/lbs.]	0.34/1.8	0.34/1.8	2.2/4.9	2.2/4.9	1.2/2.7
Mounting Supplied	-	-	-	-	-

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Please visit us on the internet at <http://www.acmarine.dk>

General Description



CEL5, CELsea6, CELsea6A, CELsea9AS, CELsea9, CELsea9A, CELsea9S and CELdual
 The series of marine antennas for cellular applications are ruggedly designed to perform in the most demanding environments.

All models feature copper and copper alloy internal construction.

CELdual-2

A dual band antenna, where one antenna covers two frequencies: AMPS and PCS.

The CELdual has the same rugged design as all other AC Marine antennas.

CELfour

See 4-band antenna on page 15

Electrical Specifications

Model:	CEL5	CELsea6	CELsea6A	CELsea9AS	CELsea9	CELsea9A	CELsea9S	CELdual-2
Frequency Range - [MHz]	825-890	825-890	806-866	806-866	825-890	806-866	825-890	825-890 /1850-1990
VSWR	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Gain - [dBd/Marine dB]	5/10	0/3	0/3	3/6	3/6	3/6	3/6	0/3
Polarization	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Connector Termination	N-Female	N-Female	N-Female	N-Female	N-Female	N-Female	N-Female	N-Female
Maximum Power [watts]	250	50	50	50	50	50	50	50
Impedance - [Ω]	-	50	50	50	50	50	50	50
DC-Grounded	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

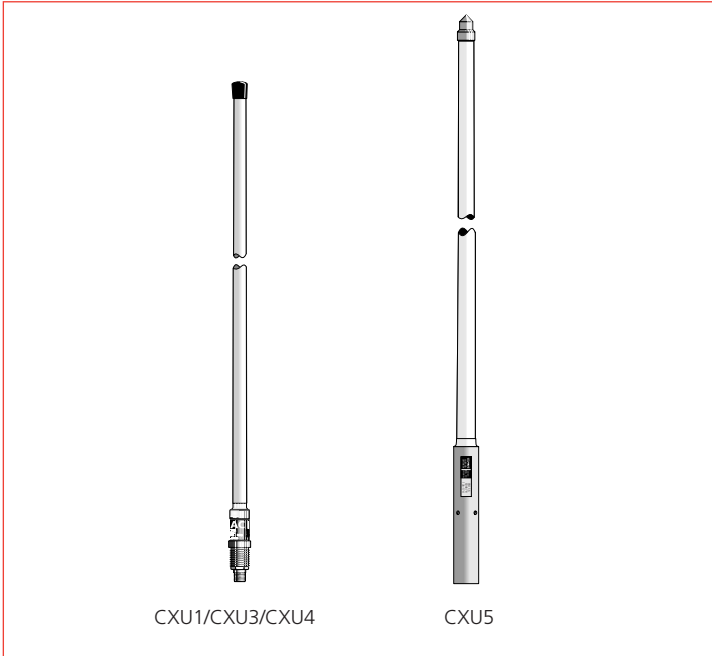
Mechanical Specifications

Model:	CEL5	CELsea6	CELsea6A	CELsea9AS	CELsea9	CELsea9A	CELsea9S	CELdual-2
Length - [m/ft.]	1.5/4.9	0.4/1.3	0.4/1.3	1.5/4.9	2.6/8.5	2.6/8.5	1.1/3.6	0.44/1.44
Weight - [kg/lbs.]	1/2.2	0.34/0.75	0.34/0.75	1.5/3.3	2.2/4.9	2.2/4.9	1.2/2.7	0.6/1.35
Mounting Supplied	-	-	-	-	-	-	-	N240F

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Please visit us on the internet at <http://www.acmarine.dk>

General Description



CXU1, CXU3, CXU4 and CXU5

For use with radio telephone, two-way business radio and many other UHF applications. Now also available for tetra applications.

Ruggedly designed to operate in all weather conditions.

Please see below schedule for the different frequency ranges and mounting hardware.

Electrical Specifications

Model:	CXU1	CXU3	CXU4	CXU5
Frequency Range - [MHz]	380-470*	380-470*	380-470*	450-470
VSWR	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Gain - [dBd/Marine dB]	0/3	3/6	5/10	5/10
Polarization	Vertical	Vertical	Vertical	Vertical
Connector Termination	N-Female	N-Female	N-Female	N-Female
Maximum Power [watts]	100	100	250	250
Impedance - [Ω]	50	50	50	50
DC-Grounded	Yes	Yes	Yes	Yes

Mechanical Specifications

Model:	CXU1	CXU3	CXU4	CXU5
Length - [m/ft.]	0.8/2.62	1.35/4.4	2.19/7.18	2.36/7.7
Weight - [kg/lbs.]	0.5/1.11	0.7/1.5	0.8/1.76	7.5/1.6

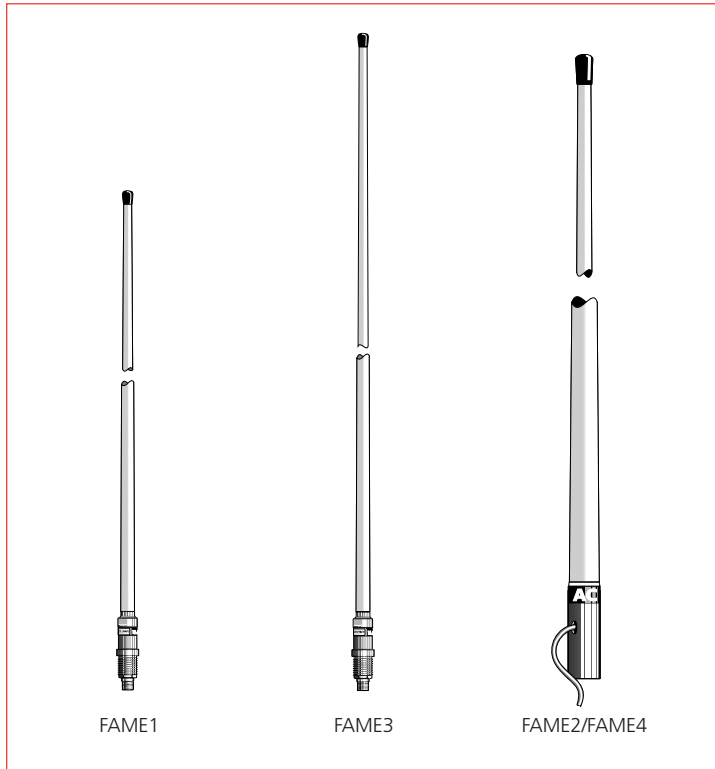
Different Types and Frequencies

Type:	Frequency (MHz)	Mounting Supplied
CXU1*	450-470	N240F
CXU1-0	to be specified	-
CXU1-5*	380-400	N240F
CXU1-7*	330-365	-
CXU1-8*	430-470	-
CXU3*	450-470	N240F
CXU3-0	to be specified	-
CXU3-1*	430-450	N240F
CXU3-2*	410-430	-
CXU3-4*	450-470	-
CXU3-5*	380-400	N240F
CXU3-7*	330-365	-
CXU3-10*	440-460	-
CXU4*	440-470	N240F
CXU4-1*	420-450	N240F
CXU4-2*	405-430	N240F
CXU4-3*	380-405	N240F
CXU5	450-470	T950F Mast

All information contained in the present brochure is subject to confirmation at time of ordering

Please visit us on the internet at <http://www.acmarine.dk>

General Description



FAME1

A 0dB (3 marine dB) AM/FM antenna with the excellent AC Marine finishing and quality. The FAME1 matches the CX4 VHF antenna in length and outlook.

FAME3

Designed to match the CX3 5/8 VHF antenna. Premium quality in performance as well as in materials used.

FAME2 and FAME4

Omnidirectional AM and FM marine Antennas.

Premium quality materials used to prevent galvanic corrosion. Both versions have the chrome Ferrule for installation on 1"-14 Mounting hardware and 18 m RG58c/u cable. The antenna can be used in any climate and withstands icing, salt air and acid rain.

Electrical Specifications

Model:	FAME1	FAME3	FAME2	FAME4
Frequency Range - [MHz]	0.15-30/88-108	0.15-30/88-108	0.15-30/88-108	0.15-30/88-108
VSWR	-	-	< 1.5:1	< 1.5:1
Gain - [sBd/Marine dB]	-	-	0/3	3/6
Polarization	Vertical	Vertical	Vertical	Vertical
Connector Termination	UHF	UHF	18 m RG58c/u	18 m RG58c/u
Maximum Power [watts]	-	-	-	-
Impedance - [Ω]	75	75	75	75
DC-Grounded	No	No	No	No

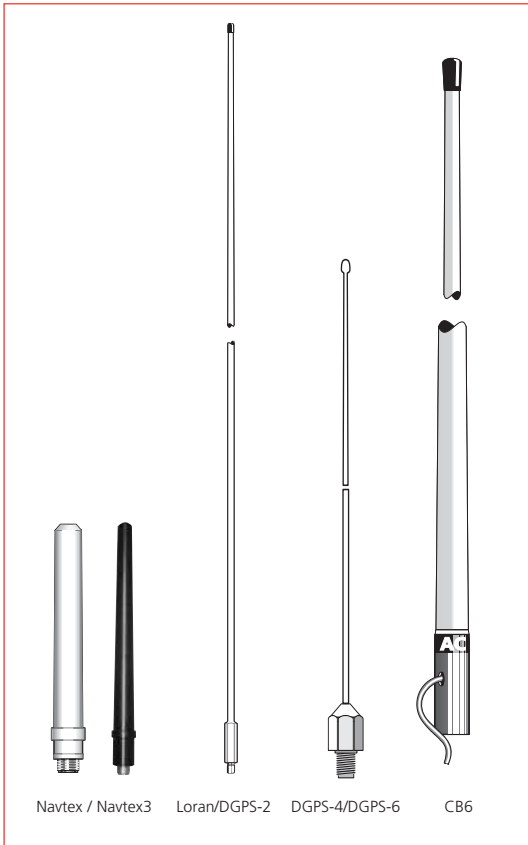
Mechanical Specifications

Model:	FAME1	FAME3	FAME2	FAME4
Length - [m/ft.]	1.26/4.13	2.58/8.5	1.25/4.13	2.68/8.79
Weight - [kg/lbs.]	0.5/1.11	0.67/1.5	1.15	1.34
Mounting Supplied	N240F	N240F	-	-
Color	White	White	White	White
Mounting hardware incl.	-	-	-	-

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Please visit us on the internet at <http://www.acmarine.dk>

General Description



NAVTEX3

The NAVTEX3 is an active receiving antenna specially designed for the NAVTEX receivers transmitting on 490KHz, 518KHz and 4209,5KHz.

The NAVTEX3 is only 32cm and easy to install using the standard AC Marine mounting hardware.

NAVTEX

The NAVTEX is an active receiving antenna specially designed for the NAVTEX receivers transmitting on 518KHz.

The NAVTEX is only 20cm and easy to install using the standard AC Marine mounting hardware.

Both Navtex antennas are constructed using smd technique for the amplifier. The antennas are powered through a coax cable and can therefore be connected to all types of Navtex receivers.

Loran/DGPS-2

A 2,0 m (6.6") or 1.2 m (4") fibreglass whip antenna with 3/8"-24 thread (male) for use with any Loran receiver or DGPS receiver.

DGPS-4/DGPS-6

A 1.2 m (4") or 0.6m (2") stainless steel whip antenna with 3/8"-24 thread (male) for use with any Loran receiver or DGPS receiver.

CB6

The CB marine antenna is for the Citizen Band (CB) - 27 MHz. The CB6 is designed to match the CELmar3-1 VHF antenna.

Electrical Specifications

Model:	NAVTEX	NAVTEX3	LORAN	DGPS-2	DGPS-4	DGPS-6	CB6
Frequency Range	514-522 KHz	490/518/4209,5KHz	-	-	-	-	26.8-28 [MHz]
Termination Supplied	UHF-Female	UHF-Female	3/8"-24 Threads	3/8"-24 Threads	3/8"-24 Threads	3/8"-24 Threads	-
Maximum Power - [watts]	9-14VDC	9-12VDC	-	-	-	-	100
Impedance - [Ω]	50	50	50	50	50	50	50
Supply Current	10mA	10mA	-	-	-	-	-
VSWR							< 1.5:1
Gain - [dBd/Marine dB]							3/6
Polarization							Vertical
Connector Termination							6 m/20 ft. RG584 U

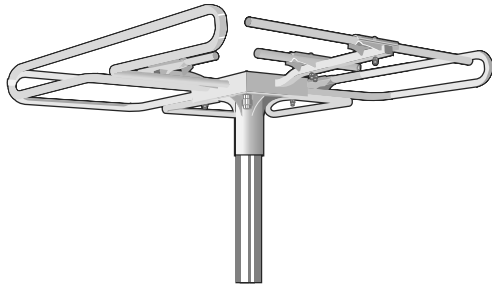
Mechanical Specifications

Model:	NAVTEX	NAVTEX3	LORAN	DGPS-2	DGPS-4	DGPS-6	CB6
Length - [m/ft.]	0.2/0.6	0.32/1.05	2.0/6.6	1.2/4	1.2/4	0.6/2	2.7/8.9
Weight - [kg/lbs.]	0.2/0.75	0.15/0.33	0.36/1.3	0.2/0.7	0.2/0.7	0.1/0.35	0.8/1.8
Mounting Supplied	N240F	N240F	-	-	-	-	-

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Please visit us on the internet at <http://www.acmarine.dk>

General Description



PRO-TV



UFO/UFO Digital

Electrical Specifications

Model:	PRO TV	UFO	UFO Digital
Frequency Range - [MHz]	40-860	45-860	470-862
Omnidirectional	360°	360°	360°
Gain, with Amplifier - [dB]	22	28	16
Max Output Voltage at 66 dB IMA - [dBmV]	-	108	100
Noise Figure - [dB]	< 2	< 2.5	< 2.5
Impedance - [Ω]	75	75	75
Power Supply Unit Type - optional	N265F	N261F	Incl.

Mechanical Specifications

Model:	PRO TV	UFO	UFO digital
Dimensions - [mm]	630 x 630 x 260	260 x 335 x 45*	260 x 335 x 45
Weight - [kg/lbs.]	2.5/4.6	0.5/1.11	0.5/1.11
Mounting Supplied	Mast Mount	See accessories	See accessories
Material mounting Hardware	-	PVC	PVC
Connector Type/Plug	Type F	Type F	Type F
Coaxial Cable Recommended	Good Quality 75 Ω	Good Quality 75 Ω	Good Quality 75 Ω

PRO-TV

PRO-TV is a professional TV antenna for use on large yachts, fishing vessels and commercial ships.

The antenna can be used anywhere in the world.

The antenna is supplied with a mount for installation on a mast with a diameter of max 40 mm.

The PRO-TV is manufactured of weather proof material which can resist the seawater.

UFO/UFO Digital

AC Marine UFO is the smallest omnidirectional antenna on the market. Its streamlined design means minimum wind resistance and the low weight of only 250 g does not affect the sailing qualities of the boat.

The capsular shape protects ropes and sails from getting caught, and at the same time the UFO is so unobtrusive that it fits every type of boats.

The elegant compact casing contains state-of-the-art technology in terms of reception of analog and digital TV and radio signals during ever-changing conditions. UFO receives TV pictures and radio signals of high quality up to 40 nautical miles from the shore.

AC Marine UFO comes with integrated low-noise amplifier, external signal splitter with power insert and universal mount. Moreover, AC Marine offers a comprehensive range of accessories of i.a. alternative mounts, signal splitters, power supplies, all kinds of connectors etc.

AC Marine UFO fits standard 1"-14 mounting hardware.



Low noise amplifier for PRO-TV, N263F

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Please visit us on the internet at <http://www.acmarine.dk>

General Description



H001F/H010F



H012F



H030F



H040F



N162F/N163F



E179F



N159F/N160F/N161F



N164F

H001F: Coaxial cable feed through for RG8/213 cable. Material: Chrome brass.

H010F: Coaxial cable feed through for RG58C/U cable. Material: Chrome brass.

H012F: Deck cable feed through. Material: Nylon

H030F: Stand-off for MF and HF. Material: Delrin.

H040F: Feed through for wire antennas. Material: Delrin.

N159F/N160F/N161F: Adaptor mount for Comrod mast mount. Material: Galvanized steel. N160F excl. mounting set, but with nut/ washer N161F incl. mounting set. N159F mounting set.

N162F: Mast bracket with small hole and large hole for all types of antennas, incl. mounting nut/washer for large antennas (CX4, CEL3B, etc) Material: Stainless steel.

N163F: Mast bracket with small hole and large hole for all types of antennas, excl. mounting nut/washer. For CELmar0 and CELmar1 antennas. Material: Stainless steel.

E179F: Deck mount permits the coax cable to be installed directly through the deck eliminating the need for additional cable feed through. Material: Chrome brass 1" pipe thread.

K483F: Connection box for KUM480/481/600/601/603/700/701/703.

K487F: Connection box for KUM803/850/903/950.

K493F: Connection transformer box for KUM480/481/600/601/603/700/701/703.

K537F: Connection transformer box for KUM803/850/903/950.

N164F: Mastmount. Material: Stainless steel, Standard 1"-14 thread.



Connection Box
K483F/K487F/K493F/K537F

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Please visit us on the internet at <http://www.acmarine.dk>

General Description



N200F



N220F



N225F



N240F



N249F



N250F/N251F



N253F



N254F



N255F



N210F



N215F

N200F: Adjustable upper support. Provides up to 203 mm (8") of horizontal stand-off adjustment from the bulkhead surface.

N220F: Mast Mount for 1"-14 thread incl. mounting hardware. Material: Stainless steel. Max 50mm pipe.

N225F: Adaptor for GPS Antenna - to be used with 1"-14 thread mounts. Material: Nylon

N240F: Mounting nut consisting of N241F, N242F and N243F. Material: Chrome brass.

N249F: Rail mount for GPS. Material: Nylon Standard 1"-14 thread.

N250F: Rail mount with handle with stainless steel mounting ring. Material: Nylon and stainless steel. Standard 1"-14 thread. For 1" or 7/8".

N251F: Rail mount with allen key with stainless steel mounting ring. Material: Nylon and stainless steel. Standard 1"-14 thread. For 1" or 7/8".

N253F: Rail mount with knob. Material: Nylon, Standard 1"-14 thread. For 1" or 7/8".

N254F: Rail mount with handle. Material: Nylon, Standard 1"-14 thread. For 1" or 7/8".

N255F: Deck mount for GPS antenna. Material: Nylon, Standard 1"-14 thread.

N210F: Railmount for GPS for 22-30mm. Material: Nylon.

N215F: Mast Mount for 1"-14 thread. Material: Stainless steel.

N267F: Power supply for NAVTEX antenna.



N267F

All information contained in the present brochure is subject to confirmation at time of ordering

Please visit us on the internet at <http://www.acmarine.dk>

General Description



N276F



N275F



N270F



N285F



N280F/N280-03F/N281F/N282F



N280-01F



N290F



N288F



N260F/N266F



N286F



Cables and connectors



N265F

N276F: 30 cm extension mast. Material: Aluminium, Standard 1"-14 thread.

N270F: Mast/wall bracket for 1" pipe thread. Material: Solid brass especially for use at sea.

N275F: Universal mast mount for mounting on top of any support pipe 33-40 mm (1 3/8"-1 1/2") in diameter. This mount also accommodates mast diameters up to 58 mm (2 1/4") when side-mounted. Material: Anodized.

N280F: 1" pipe thread Adaptor with outside screw thread incl. 6 m (20") cable with PL259 connector. Material: Chrome brass.

N280-01F: Adaptor with inside screw thread. Material: Chrome brass.

N280-02F: 6 m (20") cable with PL259 connector.

N280-03F: Adaptor with outside screw thread without cable. Material: Chrome brass 1" thread.

N281F: Adaptor with outside screw thread incl. 6 m (20") cable with N-connector. Material: Chrome brass, 1" pipe thread.

N282F: Adaptor. Material: PVC, 1" pipe thread.

N285F: 4-way mount. For deck or bulkhead mounting. Material: Chrome brass, standard 1"-14 thread.

N288F: Deck mount for GPS antenna. Material: Stainless steel, Standard 1"-14 thread.

N290F: 4-way mount. For deck or bulkhead mounting. Material Nylon, Standard 1"-14 thread.

N260F: Battery filter incl. FM for PRO-TV.

N265F: Power supply for PRO-TV.

N266F: FM filter for PRO-TV.

N286F: 4-way mount. For deck or bulkhead mounting. Standard 1"-14 thread. Material: Stainless steel

NOTE: Different types of connectors and cable sets are available - see pricelist or contact AC Marine

All information contained in the present brochure is subject to confirmation at time of ordering

General Description



N070F/N075F/N080F/N085F/N090F

N070F/N075F: Clamp for side mast mounting for KUM480/600/603/700/703. 30-50 mm (1"-1.7") Material N070F: Galvanized steel. Material N075F: Stainless steel.



N100F/N105F

N080F/N085F: Clamp for side mast mounting for KUM480/600/603/700/703. 50-80 mm (1.7"-2.7") Material N080F: Galvanized steel. Material N085F: Stainless steel.

N090F: Clamp for side mast mounting for KUM480/600/603/700/703. 80-100 mm (2.7"-3.3") diameter. Material N090F: Galvanized steel. Material N095F: Stainless steel.



N110F/N115F

N100F/N105F: Clamp for welding KUM803/850/903/950, 240 mm (8") long and 40 mm (1.3") wide. Material N100F: Galvanized steel. Material N105F: Stainless steel.

N110F/N115F: Clamp for mast mounting up to 50-70 mm (1.7"-2.3") diameter for KUM803/850/903/950. Material N110F: Galvanized steel. Material N115F: Stainless steel.



N235F

N235F: Mounting clamp for side mounting provides 31-60 mm (1 1/4" - 2 3/4") diameter for rail or mast. Material: Galvanized steel, bolts nuts and washers stainless steel.



H022F/H023F

H022F: Delrin Insulator, Large - 207 mm.

H023F: Delrin Insulator, Small - 131 mm.

T950F: Clamp for mounting PD11-5 and CXU5 for 25 to 70 mm (1"-2 3/4") diameter structure. Material: Galvanized steel.



T950F

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Please visit us on the internet at <http://www.acmarine.dk>

General Description

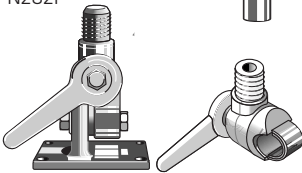
Mounting hardware for

- Celfour
- CElmar1-1
- CX4
- CX3 5/8
- CXU1/3/4
- CEL 1B/3B/5/5B
- CELdual
- CELsea6/9 series
- CELTwin1
- DCS1
- DCS3/PCS3
- DCS5/PCS5
- FAME1/3
- NAVTEX
- VHF/GPS



N240F

- N280F
- N280-01F (inside thread)
- N280-03F
- N281F
- N282F



N285F
N286F
N290F

N250F/N251F
N253F/N254F
N210F/N249F
N215F/N220F

Mounting hardware for

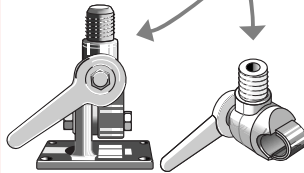
- Celfour
- CX4
- CX3 5/8
- CXU1/3
- CEL 1B/3B/5/5B
- CELdual
- CELsea6/9 series
- CELTwin1
- DCS1
- DCS3/PCS3
- FAME1/3
- NAVTEX
- VHF/GPS



E179F
Up to Ø58 mm

Mounting hardware for

- CElmar4
- CElmar2
- CELseaGSM1/3
- CElmar3-1
- CELsea1/3 series
- CELTwin2
- KUM481/601/701/731
- PD4-5
- PD55-5/PD66-6
- CB6
- UFO
- FAME2
- FAME4



N285F
N286F
N290F

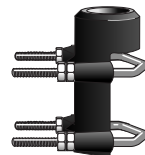
N250F/N251F
N253F/N254F
N210F/N249F
N215F/N220F



N270F

Mounting hardware for

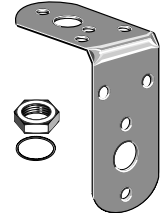
- CX4
- CX3 5/8
- CXU1/4
- CEL 1B/3B/5/5B
- CELsea6/9 series
- CELdual
- CELTwin1
- DCS1/PCS1
- DCS3/PCS3
- DCS5/PCS5
- FAME1/3
- VHF/GPS



N275F
Up to Ø58 mm

Mounting hardware for

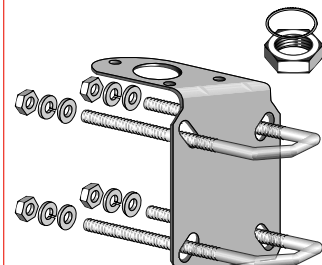
- CElmar0
- CElmar1-1
- CElmarVHF
- CX4
- CXU1/3/4
- CEL 1B/3B/5/5B
- CELsea6/9 series
- CELdual
- CELTwin1
- DCS1
- DCS3/PCS3
- DCS5/PCS5
- FAME1/3
- VHF/GPS



N162F/N163F

Mounting hardware for

- CX4
- CX3 5/8
- CXU1/3/4
- CEL 1B/3B/5/5B
- CELsea6/9 series
- CELdual
- CELTwin1
- DCS1
- DCS3/PCS3
- DCS5/PCS5
- FAME1/3
- VHF/GPS



N160F/N161F

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