

2011

*Shakespeare*<sup>®</sup>

Full Line Catalog



Marine Antennas



Shakespeare®



*Experience*

## The Shakespeare® Tradition

For over a century, Shakespeare has maintained a winning tradition of getting there first with the best. This is particularly evident today as other antenna manufacturers promote “innovations” that we pioneered years ago and now regard as standard features. Take, for example, low angle of radiation. Our engineers developed low angle techniques in marine antennas in the 1960s. Or take fiberglass radomes, hand-soldered connections, brass and copper elements, or metal ferrules for demanding conditions. Or ultra smooth, extra durable, polyurethane finishes. All were introduced, and remain superior, in Shakespeare antennas.

Boaters worldwide know and trust Shakespeare innovation, performance, quality and reliability. Command and communication centers aboard ships of the U.S. Coast Guard, U.S. Navy and military services around the globe count on Shakespeare for antenna design, technology and quality manufacture.

*Knowledge*

## Shakespeare® Innovation and Craftsmanship

Our dedicated engineers continue to innovate and apply sophisticated electrical engineering. Quality control is constant within every area, and our exclusive white fiberglass radomes seal out moisture, prevent corrosion and provide years of trouble-free operation. With Shakespeare antennas, reliability is further assured through extensive testing on our own high-tech test range.

Galaxy® antennas continue 20-plus years of innovation and craftsmanship. Our master craftsmen hand solder, hand assemble and hand finish each antenna individually. Relied upon for high performance and chosen for their extra durable construction, they are also universally admired for their beautiful, distinctive Galaxy finish. With mirror-polished, stainless steel ferrules, the antennas’ pristine white radomes are protected by a proprietary, high-gloss polyurethane that won’t fuzz or turn yellow in the sun.

Shouldn't you insist on a genuine Shakespeare antenna?

Cover Photo and photos on pages 14, 22, 27, 28, 38, 40 and 42 are courtesy of Sea Ray Boats.

# Quality

## Marine Antennas

### to Fit Your Boating Lifestyle!

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## 5225-XP

### 8' VHF 6dB Gain

#### Collinear-Phased 5/8 Wave Elements

For the toughest of the tough jobs, Shakespeare introduces the extra edge of silver plated elements on world-renowned, world class, Galaxy marine VHF antennas. The new 5225-XP is a maximum range antenna built in a Shakespeare extra tough fiberglass radome. It's designed to withstand the wind forces and high speeds when used on hard-tops, T-tops, and radar arches. The silver plating adds extended performance for extra reliable communications. The antenna's legendary Galaxy high-gloss finish assures that it's welcome aboard.

- Copper and silver plated brass elements for extraordinary range and efficiency
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 20' RG-8/X low-loss cable plus a PL-259 connector
- Suggested mount: Style 4187 or 5187

**Max. Power Input:** 150 watts

**SWR:** Nominally 1.5:1 at 156.8 MHz

**Bandwidth:** 6 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** Yes

## 5400-XP

### 4' VHF 3dB Gain

#### Center-Fed 1/2 Wave Coaxial Sleeve

Shakespeare has added the extended performance of silver plated elements to this outstanding, 4' workhorse antenna. At home on T-tops and hard-tops, its small size is welcome aloft, where it can deliver maximum range. The extended performance silver plating gives it that extra edge for general purpose communications.

- Copper and silver plated brass elements for extraordinary range and efficiency
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 20' RG-8/X low-loss cable plus a PL-259 connector
- Suggested mount: Style 4187 or 5187

**Max. Power Input:** 150 watts

**SWR:** Nominally 1.5:1 at 156.8 MHz

**Bandwidth:** 5 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No



# Galaxy® XP Silver Series

## Silver Plated Elements for Extended Performance

Silver-plated brass elements have been added to our award-winning Galaxy technology, producing extended performance, longer service life, and peace of mind communication. Available only from Shakespeare —Your Signal of Assurance™.

Exclusive white fiberglass seals out moisture to prevent corrosion. Rugged, high-gloss, non-yellowing finish assures long-lasting beauty.

Low-loss ethafoam spacer for strong mechanical support.

Low-loss polyethylene dielectric.

Stranded, high-quality tinned copper inner conductor maximizes signal strength.

Ultra efficient, silver-plated brass choking sleeve suppresses cable radiation for maximum on-air signal.

High-quality, silver-plated brass outer element for extended life, maximum efficiency, and superior mechanical strength.

Flexible coax that has higher power capabilities, less loss per foot, UV stable jacketing, stranded copper core, and copper shielding to help maximize antenna performance.

Stainless steel ferrule resists corrosion.



Galaxy XP

**GALAXY®**  
**XP**  
EXTENDED  
PERFORMANCE

## Galaxy® Eliminator® Series

They grate on your nerves, those shrill squawks and squeaks, whistles and tones that sporadically erupt from even squelched marine VHF radios. Pure noise to most folks, "Intermod" and "Out-of-Band Interference" are what experts call it. And sorry to say, the closer you get to busy seaports, harbors or shipping channels, the more likely you are to experience this interference.

To reduce the effects, Mariners have traditionally used externally mounted notch and band-pass filters. Unfortunately, these bulky filters are costly and require connecting cables that may decrease the sensitivity of your marine VHF system.

But now, after more than two years of extensive research and field trials, Shakespeare engineers have developed a revolutionary filter technology that can dramatically reduce the annoying effects of Out-of-Band Interference in your VHF radio. Best of all, the filter circuits are built right into the antenna. There are no power connections or special cables of any kind. So all you do is install the antenna as usual. And since these special filters have less than 0.25dB insertion loss, there is virtually no impact on your transmit range.

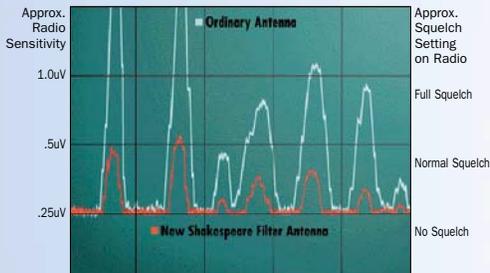
Available only from Shakespeare, this revolutionary technology is offered in two antennas: the 8', 6dB Galaxy 5225-FLT and the 17'6", 9dB Galaxy 5018-FLT. Both feature all the quality and performance you expect in a Galaxy antenna. Just pick the one that's right for you - and enjoy the quiet!

- Greatly Reduces Pager and Intermod Interference
- Patented - Special, High Efficiency Filter Built In
- Installs As Usual - No Special Cables or Power Required
- Virtually No Impact on Transmit Range
- Two Versions: 8' with 6dB Gain and 17'6" with 9dB Gain

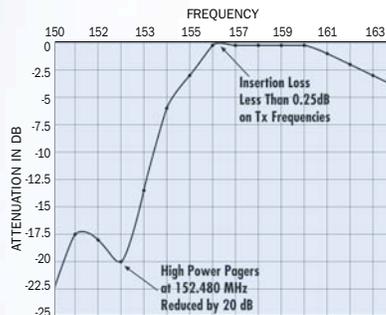
### Breakthrough Antenna Technology

Reduces Pager and Intermod Interference

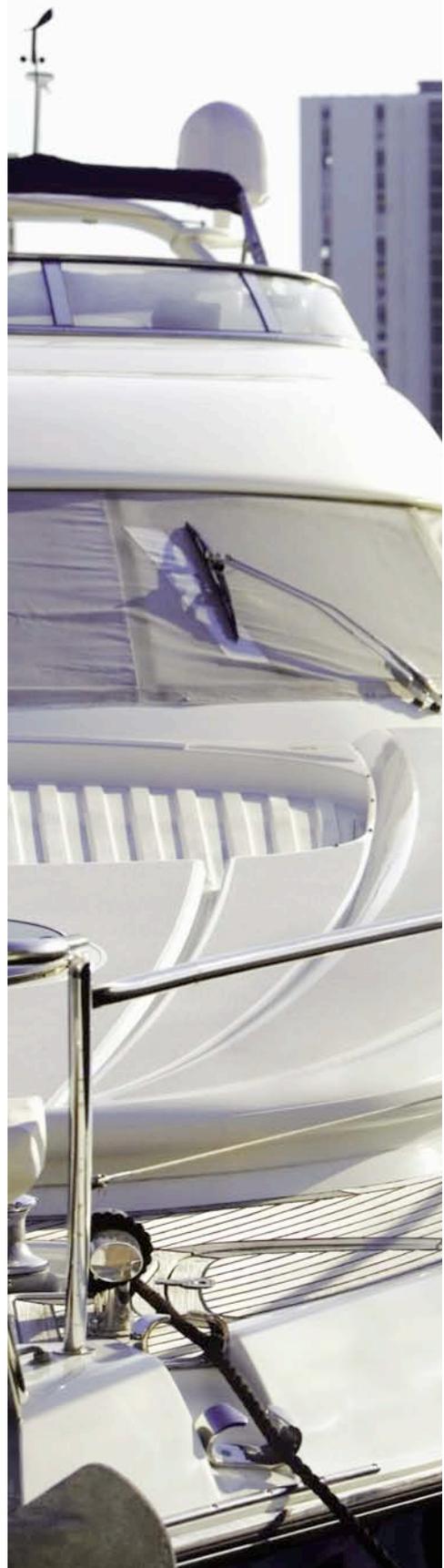
US Patent 6,469,590



Typical Marine VHF receiver responses comparing the Eliminator Series and an ordinary antenna. Notice the dramatic reduction of annoying squelch breaks at the "Normal Squelch" level. The Ordinary antenna had 5, while the Eliminator Series had only 1.



This chart displays the attenuation characteristics of the Galaxy Eliminator Series Antennas. Notice the rapid roll-off of interference-causing frequencies just below the marine band. By reducing "Out-of-Band" signals entering the receiver, not only are annoying squelch breaks controlled, but the Signal to Noise ratio on marine VHF channels is vastly improved for clearer sounding reception.



# GALAXY



## 5225-FLT 8' VHF 6dB Gain



### Collinear Phased 5/8 Wave Elements with Special Filtering to Suppress Out-Of-Band Interference

If you boat near busy seaports, in harbors or just offshore of major cities and are troubled with annoying squawks and squeals erupting from your VHF radio, the 5225-FLT is for you. Using Shakespeare's revolutionary filter technology, the 5225-FLT provides all the performance of the flagship Galaxy 5225-XT, plus it can significantly reduce annoying Out-of-Band and Intermod Interference caused by pagers, land mobile radios and other signals near the marine VHF radio band. And, it does this with virtually no impact on transmit range. The 5225-FLT features the extra tough Galaxy fiberglass with its high-gloss polyurethane finish.

- Brass and copper elements to maximize range and efficiency
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 20' RG-8/X low-loss cable plus a PL-259 connector
- Suggested mount: Style 4187 or 5187

**Max. Power Input:** 30 watts

**SWR:** Nominally 1.5:1 at 156.8 MHz

**Bandwidth:** 3 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**Filter Loss:** Less than 0.25dB

## 5226-FLT

Same as the 5225-FLT in an exclusive black Galaxy finish.

## 5018-FLT 17'6" VHF 9dB Gain



### Phased 1/2 Wave Elements in a Collinear Array with Special Filtering to Suppress Out-Of-Band Interference

This antenna implements Shakespeare's innovative filtering technology that helps get pager and other Out-of-Band interference under control in installations demanding taller, higher gain antennas. In busy radio areas like harbors, the antenna's filter can make a big difference in how much "RF garbage" you hear. Working with your radio's own rejection circuitry, the 5018-FLT can actually improve the fidelity of your VHF radio. Except for the added filter, the 5018-FLT is otherwise like the acclaimed 5018. Its highly sophisticated design is outstanding for long distance communications.

- Brass and copper elements to maximize range and efficiency
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 20' RG-8/X low-loss cable plus a PL-259 connector
- Suggested mount: Shakespeare Style 409-R or 410-R mounting kit
- Two sections: Base 105"; Tip 105" - UPS shippable

**Max. Power Input:** 30 watts

**SWR:** Nominally 1.5:1 at 156.8 MHz

**Bandwidth:** 3 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**Filter Loss:** Less than 0.25dB



Galaxy Eliminator

## Galaxy® VHF Antennas

Shakespeare Galaxy Antennas have long been revered as the industry standard for both beauty and performance with top notch materials and master craftsmanship as a basis for every antenna.



### 5400-XT LITTLE GIANT™

4' VHF 3dB Gain

#### Center-Fed 1/2 Wave Coaxial Sleeve

An outstanding, 4' antenna of heavy-duty construction for general purpose communications. It's at home on T-tops, hard-tops and other positions aloft, where its small size can deliver maximum range.

- Brass and copper elements to maximize range
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 20' RG-8/X low-loss cable plus a PL-259 connector
- Suggested mount: Style 4187 or 5187

**Max. Power Input:** 50 watts

**SWR:** Less than 1.5:1 at 156.8 MHz

**Bandwidth:** 5 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No

Shakespeare GALAXY™ 5400-XT



## 5401-XT LITTLE GIANT™

4' VHF 3dB Gain

### Center-Fed 1/2 Wave Coaxial Sleeve

Same as the 5400-XT in an exclusive black Galaxy finish.

- Brass and copper elements to maximize range
- Stainless steel ferrule with standard 1"-14 thread
- Includes 20' RG-8/X low-loss cable plus a PL-259 connector
- Suggested mount: Style 4187 or 5187

**Max. Power Input:** 50 watts

**SWR:** Less than 1.5:1 at 156.8 MHz

**Bandwidth:** 5 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No

## 5400-XTM LITTLE GIANT™

4' VHF 3dB Gain

A heavy-duty, 4' VHF antenna designed especially for mast mounting in land-based or ship station application where a larger antenna is not feasible.

- Brass and copper elements to maximize range
- High-gloss, non-yellowing polyurethane finish
- Stainless steel mounting sleeve
- SO-239 connector in the base of the mounting sleeve
- U-bolts included; Or use optional 4715 mounting clamps – see page 49

**Max. Power Input:** 50 watts

**SWR:** Less than 1.5:1 at 156.8 MHz

**Bandwidth:** 5 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No

## 5396-AIS LITTLE GIANT™

4' VHF AIS 3dB Gain

Specially designed to meet the broader bandwidth requirements of all popular AIS transceivers, Shakespeare's Galaxy Style 5396-AIS antenna features commercial-grade fiberglass construction. With the great looks of Shakespeare's Galaxy Little Giant series the 4' antenna comes with a standard 1"-14 thread stainless steel ferrule and 20' of RG-8/X Coax.

- Brass and copper elements
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with 1"-14 thread
- Includes 20' RG-8/X low-loss cable plus a PL-259 connector
- Suggested mount: Style 4187 or 5187
- One Section

**Max. Power Input:** 50 watts

**SWR:** Less than 1.5:1 at 158 MHz

**Bandwidth:** 5 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No

## 5415

2' VHF 3dB Gain

### Low Profile End-Fed 1/2 Wave

Designed especially for Rigid Inflatable Boats and other applications requiring a short overall length, the black stainless steel whip has a helical design to avoid excessive whipping action. A unique solder-less connector at the base provides for easy installation and removal.

- Durable all black finish
- Includes 20' black RG-58 cable plus a PL-259 connector
- "L" bracket supplied

**Max. Power Input:** 50 watts

**SWR:** Less than 1.5:1 at 156.8 MHz

**Bandwidth:** 6 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

## 4716

### Stand-off Mast Mount

A durable, angled mast mount and stand-off bracket in one. Fits all Shakespeare low-profile, base-loaded antennas. Mounting screws not included.

- Simple, lightweight and durable
- Attaches easily to any flat, vertical surface
- Corrosion resistant black plastic
- Dimensions: 5"high x 1½"wide x ¾"thick  
Stand-off distance: 8"

## 4717

### Mast-top Mount

This simple, flat bracket attaches to the top of a mast for mounting any of Shakespeare's low-profile, base-loaded antennas. Rugged, black plastic. Mounting screws not included.

- Simple, lightweight and durable
- Corrosion resistant black plastic
- Dimensions: ¾"high x 1½"wide x 8"long



**GALAXY**®

Galaxy VHF

## 5225-XT Extra-Tough

**8' VHF 6dB Gain**

### Collinear-Phased 5/8 Wave Elements

Shakespeare's flagship - maximizes range and quality in a great looking antenna with a stronger, stiffer radome. It's extra tough for use on hard-tops, T-tops, radar arches, or wherever its extra resistance to high winds and high speeds is welcome.

- Brass and copper elements for maximum range and efficiency
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 20' RG-8/X low-loss cable plus a PL-259 connector
- Suggested mount: Style 4187 or 5187

**Twin to:** Galaxy Style 5223-XT CB antenna

**Max. Power Input:** 100 watts

**SWR:** Nominally 1.5:1 at 156.8 MHz

**Bandwidth:** 6 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** Yes

## 5325-XT Extra-Tough

**8' VHF 6dB Gain**

Same as the 5225-XT with mast mount ferrule. Includes stainless steel U-bolts. Or use optional 4715 mounting clamps - see page 49.

## 5226-XT Extra-Tough

**8' VHF 6dB Gain**

### Collinear-Phased 5/8 Wave Elements, Black-Finish

Same as the 5225-XT, but with the exclusive Galaxy gloss black finish.

## 5399

**9'6" VHF 6dB Gain**

### Collinear-Phased 5/8 Wave with Two Coaxial Chokes to Suppress Cable Radiation

This professional quality antenna is a performance powerhouse. It's extra strong-sturdy enough to be self-supporting, even in high winds and high speeds.

Not recommended for self-supported mounting on T-tops or radar arches, due to limitations of the mount and mounting surface.

- Brass and copper elements for maximum range and efficiency
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 20' RG-8/X low-loss cable plus a PL-259 connector
- Suggested mount: Use only Shakespeare's extra heavy-duty Style 4187-HD Ratchet Mount for self-supporting applications, or use a Style 409-R or 410-R mounting kit for installation on an upper support bracket
- Two sections: Base 75", Tip 39" - UPS shippable

**Max. Power Input:** 100 watts

**SWR:** Nominally 1.5:1 at 156.8 MHz

**Bandwidth:** 3 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** Yes



## 5230

### 14' VHF 8dB Gain

#### 5/8 Wave Over 1/2 Wave Dipole

The ultra-performer, Shakespeare's Style 5230 is the most effective 8dB antenna system available anywhere, thanks to its increased signal capture area.

- Brass and copper elements for maximum range and efficiency
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 20' RG-8/X low-loss cable plus a PL-259 connector
- Suggested mount: Shakespeare Style 409-R or 410-R Mounting Kit
- Two sections: Base 94", Tip 74" - UPS shippable

**Max. Power Input:** 200 watts

**SWR:** Nominally 1.5:1 at 156.8 MHz

**Bandwidth:** 3 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** Yes



## HS-2774-1

### 6'5" Broadband VHF

#### 136-174 MHz Broadband

The HS 2774-1 is a highly sophisticated antenna with performance maximized from 136 to 174 MHz. It will handle continuous duty at maximum input power. The self-supporting antenna is designed for military, commercial, law enforcement, and disaster preparedness. No tuning or ground plane required.

- Hand soldered brass elements for maximum range and efficiency
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule, standard 1"-14 threads
- Includes 20' of RG-8/X low-loss cable plus a PL-259 connector
- Suggested mount: Use only Shakespeare Style 4187-HD for self-supporting applications; Use a Style 410-R if an upper support bracket installation is preferred
- One section

**Max. Power Input:** 125 Watts - Continuous

**VSWR:** Less than 2:1 across the 136-174 MHz VHF band

**Directive Gain On the Horizon:** @136 MHz +3.3dbi;  
@ 154 MHz +4dbi; @174 MHz +4.3dbi

**Frequency:** 136-174 MHz

**DC Grounding:** Yes

U.S. Patent 5,982,332



## 5018

### 17'6" VHF 9dB Gain

#### Phased 1/2 Wave Elements in a Collinear Array with Choking Sleeve to Suppress Cable Radiation

This highly sophisticated design is outstanding for long distance communications. Extra rugged for salt water durability and stability in high seas. Surprisingly light weight.

- Twin to Style 5390 HF/SSB antenna
- Brass and copper elements
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 20' RG-8/X low-loss cable plus a PL-259 connector
- Suggested Mount: Shakespeare Style 409-R or 410-R Mounting Kit (pictured mount not included)
- Two sections: Base 105", Tip 105" - UPS shippable

**Max. Power Input:** 150 watts

**SWR:** Nominally 1.5:1 at 156.8 MHz

**Bandwidth:** 3 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No



## 5309-R

### 23' VHF 9dB Gain

#### Phased 1/2 Wave Elements in Collinear Array with a Band Spread Matching Sleeve and a Choking Stub to Suppress Cable Radiation

This design invokes all the antenna engineers' tricks to produce the clearest possible transmission and reception over the longest range.

- Brass and copper elements
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 20' RG-8/X low-loss cable plus a PL-259 connector
- Suggested Mount: Shakespeare Style 409-R or 410-R Mounting Kit (pictured mount not included)
- Two sections: Base 172", Tip 105"

**Twin to:** Galaxy Style 5310-R HF/SSB

**Max. Power Input:** 150 watts

**SWR:** Nominally 1.5:1 at 156.8 MHz

**Bandwidth:** 3 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No



Galaxy VHF

## Galaxy® HF/SSB Antennas

For long-range communication, HF/SSB literally bounces a signal off the earth's ionosphere to "skip" around the globe. Shakespeare's quality Galaxy Antennas deliver the high performance your transceiver needs to do the job. Galaxy good looks, and supreme performance.

### 5390

#### 17'6" HF/SSB Whip

##### Full-Length Conductors, No Loading Coil

Hand crafted Galaxy antenna with reinforced insulating qualities allow input power up to 1 kw. Full-length conductors are permanently sealed in white fiberglass.

- Twin to Style 5018 VHF antenna
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Side-feed termination
- Suggested mount: Shakespeare Style 409-R or 410-R Mounting Kit (pictured mount not included)
- Two sections: Base 105"; Tip 105" - UPS shippable

**Max. Power Input:** 1 kw

**Resonant Frequency:** 10.8 MHz

**Frequency:** 2-30 MHz with a tuner  
(tuner not supplied)

### 5310-R

#### 23' HF/SSB Whip

##### Full-Length Conductors, No Loading Coil

This hand-crafted antenna is a top performer for commercial vessels, yachts and larger sportfishing boats. Easily handles up to 1 kw input power.

- Brass and copper elements for maximum range and efficiency
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Side feed termination
- Suggested mount: Shakespeare Style 409-R or 410-R Mounting Kit (pictured mount not included)
- Two sections: Base 172", Tip 105"

**Twin to:** Galaxy Style 5309-R VHF

**Max. Power Input:** 1 kw

**Resonant Frequency:** 10.8 MHz

**Frequency:** 2-30 MHz with a tuner  
(tuner not supplied)

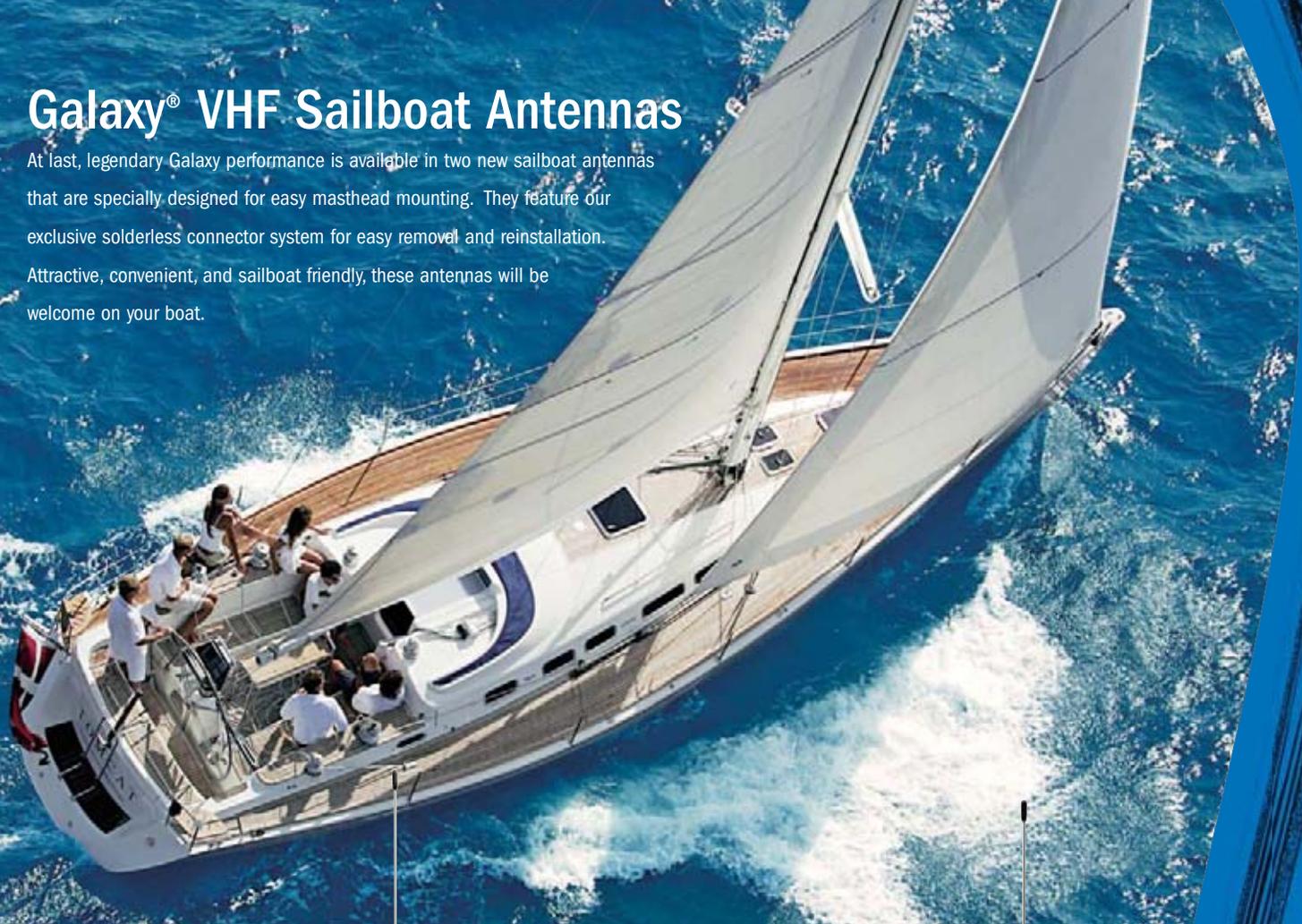


# GALAXY®

# Galaxy® VHF Sailboat Antennas

At last, legendary Galaxy performance is available in two new sailboat antennas that are specially designed for easy masthead mounting. They feature our exclusive solderless connector system for easy removal and reinstallation.

Attractive, convenient, and sailboat friendly, these antennas will be welcome on your boat.



## 5440

**3' VHF 3dB Gain**

### Stainless Steel Whip

Designed for sailboat masts, the Style 5440 delivers excellent performance and easy installation. Its exclusive, solderless connector system makes it easy to remove for storage or at season's end. The included mounting bracket makes it simple to mount to a mast while conveniently offsetting the antenna to clear other mast-top devices. Includes 65 feet of special low-loss RG-58 coax cable.

- Stainless steel whip
- Lightweight and low wind drag
- Offset bracket included for mounting to a mast
- Solderless connector system
- PL-259 connector

**Max. Power Input:** 50 watts

**SWR:** Less than 1.5:1 at 156.8 MHz

**Bandwidth:** 6 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** Yes



## 5445

**3' VHF 3dB Gain**

### Stainless Steel Whip with Wind Vane

Specially designed to be mounted atop a sailboat mast, this excellent performer combines communication with information. It includes a convenient wind vane and comes with a mast-top offset bracket that keeps the antenna and vane away from other mast-top devices. The antenna's exclusive, solderless connector system makes it easy to install and remove it at season's end or for storage.

- Stainless steel whip
- Lightweight and low wind drag
- Includes 65' of special low-loss RG-58 coax
- Solderless connector system
- Mounting bracket included, for easy attachment to the top of a mast
- PL-259 connector

**Max. Power Input:** 50 watts

**SWR:** Less than 1.5:1 at 156.8 MHz

**Bandwidth:** 6 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** Yes



Galaxy Sailboat



## 5224

### 4' DGPS Beacon Antenna

This Galaxy antenna is specially designed to receive Differential Beacon broadcasts that permit much tighter positional fixes using GPS equipment. Differential GPS receivers can take the additional signals into account when calculating lat-lon position from GPS satellite information.

- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with  $\frac{3}{8}$ "-24 thread
- One section



## 5220

### 8' Loran C Antenna

This hand-crafted design has the same electrical specs as Shakespeare's famous Style 10-3, recommended by virtually all Loran manufacturers. Finished in the sleek Galaxy style.

- Element is securely encased in solid fiberglass
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with Loran standard  $\frac{3}{8}$ "-24 thread
- One section

Loran coupler not included



# Galaxy® Specialty Antennas

Shakespeare's Galaxy Loran C, DGPS, CB and Wi-Fi antennas make your boating easier and more fun. With looks that match our other Galaxy antennas, these specialty antennas rule!

## 5223-XT

### 8' CB Unity Gain

#### Continuous-Load, End-Fed 1/2 Wave

A tuneable, easily installed CB antenna for top performance in demanding situations. Connector is supplied but not installed, so only a 3/8" hole is required for passage of the cable. Coax length can be altered on this antenna.

- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 20' RG-8/X cable, which can be cut to size, plus a PL-259 connector
- Suggested mount: Shakespeare Style 4187 or 5187 Ratchet Mount, or use a 410-R Mounting Kit and a 5228 Extension Mast to form a 16' antenna system
- One section

**Twin to:** Galaxy Style 5225-XT VHF

**Max. Power Input:** 25 watts

**SWR:** 1.5:1 or less at Channel 19

**Bandwidth:** 440 kHz within 2.0:1 VSWR

**Frequency:** 27 MHz Citizens Band

**DC Grounding:** Yes



## 5248

### 2' Wi-Fi Antenna 8dB Gain

You are not alone, especially if you have a Wi-Fi enabled computer system onboard. This sturdy Shakespeare Galaxy antenna of 2' overall length brings the wonder of Wi-Fi to the marine environment. It features an N-type connector and a special sleeve-collar ferrule design that accommodates larger diameter coax. Moreover, should the antenna ever need to be replaced, it can be done without rerunning the coax.

- Hi-tech PCB copper elements
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread and special sleeve-collar design
- Female "N" connector at the base of the antenna
- Suggested mount: Shakespeare Style 4187, 5187, 4188-S or 4190

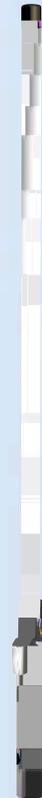
**Max. Power Input:** 25 watts

**Bandwidth:** 80 MHz within 2.0:1

**Frequency:** 2.40 - 2.48 GHz

**DC Grounding:** No

*Requires wireless router or access point with external antenna connection capability*



# GALAXY®

Galaxy Specialty

## 5410-XT LITTLE GIANT™

### 4' Dual Band Cellular 3dB Gain

#### 800/900 MHz and 1800/1900 MHz Cellular

This compact, extra sturdy antenna covers the digital, analog and PCS cellular bands. For quality and reliability, the antenna is hand-finished and its connections hand-soldered. Use one of Shakespeare's CPA Series adapters to connect your portable cell phone.

- Brass and copper elements to maximize range
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 25' of Shakespeare exclusive RG-8/X low-loss cable and a "TNC" connector
- Suggested mount: Style 4187 or 5187

**SWR:** Less than 1.5:1 at 852.65 MHz;

Less than 1.5:1 at 1918.7 MHz;

**Bandwidth:** 96 MHz within 2.0:1 VSWR (800/900 MHz band)  
140 MHz within 2.0:1 VSWR (1900 MHz band)

**Frequency:** Dual Band 800-900 MHz and 1800-1900 MHz

**DC Grounding:** No

## 5411-XT LITTLE GIANT™

### 4' Dual Band Cellular 3dB Gain

#### 800/900 MHz and 1800/1900 MHz Cellular

Same as the 5410-XT in an exclusive black Galaxy finish.

## 5410-XTM LITTLE GIANT™

### 4' Mast Mount, Dual Band Cellular 3dB Gain

#### 800/900 MHz and 1800/1900 MHz Cellular

Same as the 5410-XT, but with a stainless steel sleeve for mast mounting. Ideal for workboats, base-stations and commercial installations.

- Brass and copper elements to maximize range
- High-gloss, non-yellowing polyurethane finish
- Stainless steel mounting sleeve
- Female "N" connector at the base of the antenna
- Suggested mount: Stainless steel U-bolts included; Or use optional 4715 mounting clamps - see page 49

**SWR:** Less than 1.5:1 at 852.65 MHz;

Less than 1.5:1 at 1918.7 MHz

**Bandwidth:** 96 MHz within 2.0:1 VSWR (800/900 MHz band)  
140 MHz within 2.0:1 VSWR (1900 MHz band)

**Frequency:** Dual Band 800-900 MHz and 1800-1900 MHz

**DC Grounding:** No

## 5412-S

### 2' Dual Band Cellular 3dB Gain

#### 800/900 MHz and 1800/1900 MHz Cellular

This compact powerhouse is specially designed for sailboats. Electrically the same as the 5412-P, but fitted with a stainless steel ferrule and "N" connector for mast mounting.

- Brass and copper elements to maximize range
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule
- Female "N" connector at the base of the antenna
- Right angle stainless steel bracket included for mast mounting
- Special note: Cable and male "N" connector not supplied

## 5412-P

### 2' Dual Band Cellular 3dB Gain

#### 800/900 MHz and 1800/1900 MHz Cellular

Specially designed for powerboats, this neat and efficient dual-band cellular antenna packs the punch to keep you in touch. It's a hand-soldered, hand-finished Galaxy antenna with collinear-phased ½-wave elements and dual brass choking sleeves to suppress pattern distortion due to cable radiation.

- Brass and copper elements to maximize range
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with female "N" connector
- Shakespeare Style 4006 adapter included for standard 1"-14 thread mounts
- Includes 25' of Shakespeare exclusive RG-8/X low-loss cable, "N", and "TNC" connectors
- Suggested mount: Style 4187 or 5187

**SWR:** Less than 1.5:1 at 852.65 MHz;

Less than 1.5:1 at 1918.7 MHz;

**Bandwidth:** 96 MHz within 2.0:1 VSWR (800/900 MHz band)  
140 MHz within 2.0:1 VSWR (1900 MHz band)

**Frequency:** Dual Band 800-900 MHz and 1800-1900 MHz

**DC Grounding:** No



## 5237-XT

### 8' Dual Band Cellular 3dB Gain

#### 800/900 MHz and 1800/1900 MHz Cellular

This antenna covers digital, analog and PCS cell phone bands in an eight-foot radome that coordinates with other Shakespeare Galaxy antennas. Electrical connections are hand soldered for reliability. A brass choking sleeve eliminates pattern distortion due to cable radiation. Use one of Shakespeare's CPA Series adapters to connect your cell phone.

- Brass and copper elements to maximize range
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 25' of Shakespeare exclusive RG-8/X low-loss cable and a "TNC" connector
- Suggested mount: Style 4187 or 5187

**SWR:** Less than 1.5:1 at 852.65 MHz;  
Less than 1.5:1 at 1918.7 MHz;

**Bandwidth:** 96 MHz within 2.0:1 VSWR (800/900 MHz band)  
140 MHz within 2.0:1 VSWR (1900 MHz band)

**Frequency:** Dual Band 800-900 MHz and 1800-1900 MHz

**DC Grounding:** No

## 5238-XT

### 8' Dual Band Cellular 3dB Gain

#### 800/900 MHz and 1800/1900 MHz Cellular

Same as the 5237-XT in an exclusive black Galaxy finish.

## 5318

### 17'6" Dual Band Cellular 3dB Gain

#### 800/900 MHz and 1800/1900 MHz Cellular

This large, dual-band cellular antenna brings the electrical performance and aesthetic beauty of our Galaxy 5018 and 5390 styles to a dual-band cellular configuration. Its longer length gets the signal higher up for greater range. Hand-soldered and hand-finished with Shakespeare's proprietary polyurethane finish that won't fuzz or turn yellow in the sun.

- Brass and copper elements to maximize range
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 25' of Shakespeare exclusive RG-8/X low-loss cable and a "TNC" connector
- Suggested Mount: Shakespeare Style 409-R or 410-R Mounting Kit (pictured mount not included)
- Two sections: Base 105", Tip 105" - UPS shippable

**SWR:** Less than 1.5:1 at 852.65 MHz;  
Less than 1.5:1 at 1918.7 MHz;

**Bandwidth:** 96 MHz within 2.0:1 VSWR (800/900 MHz band)  
140 MHz within 2.0:1 VSWR (1900 MHz band)

**Frequency:** Dual Band 800-900 MHz and 1800-1900 MHz

**DC Grounding:** No



## Galaxy® Cellular Antennas

Cellular phones have become an integral part of our daily lives in both labor and leisure... on or off the water. These extra sturdy, high performance cellular antennas deliver extra range for conversations that are loud and clear on digital, analog and PCS cellular bands.

## ADAPTER CABLE BRANDS and MODELS

	<b>AUDIOVOX*</b>
CPA-126	CDM-8900, CDM-8910
CPA-220	CDM-9000
CPA-171	GZ One (Type V)
	<b>BLACKBERRY*</b>
CPA-139	All Models with an internal antenna
	<b>HANDSPRING*</b>
CPA-142	Treo
CPA-210	Treo 750
CPA-240	Treo 600
CPA-241	Treo 650, Treo 700
	<b>KYOCERA*</b>
CPA-155	QCP-1135, QCP-2235, QCP-2325
CPA-156	413, K7, K404, K484, K494, KE413, KE414, KE424, KE433, KX414, KX424, KX433, KX434, KX440, KX444
Limited Availability	CPA-157 QCP-2135
Limited Availability	CPA-158 SLIDE TYPE PHONES
CPA-159	QCP-3035
	<b>LG*</b>
CPA-123	VX-3200, VX-4400, VX-4600, VX-6000, VX-6100, VX-6190, VX-7000, VX-8000, VX-8100, 5200 SERIES, 5250, C-1500
CPA-126	VX-2000, VX-4500, VX-8300, 4NE1
CPA-132	110 SERIES, 510 SERIES, 520 SERIES, V111, VX-1, VX-10
CPA-139	PM-225
CPA-171	CG-225, LX-350, UX-355, UX-390, CE-500, CV-500, L-1100, L-1200, VX-3820, VX-5300
	<b>MOTOROLA*</b>
CPA-110	MicroTac, MicroTac II, Slim Lite, PT550/950
CPA-120	STAR TAC, A1688, CD920, CD928, L2000, P8088, V2088, V3188, V3610, V3620, V3688, V8088, 3000, 6500, ST7760, ST7790, ST7868, DS8500, V8162, P8167, T8167, P8767, P8162, Timeport Series (Flip type)
CPA-123	120C, 120T, 120E, 120X, 182c, A630, E310, T190, T191, T193, V200, V235, V265, V300, V400, V505, V551, V600, V710
CPA-124	V60, V60c, V60g, V60t, V60i, V60s, V60p, V60ci
CPA-126	T720, T720i, T720g, T730c, T740, V-3251i
CPA-155	V70
	<b>NEXTEL*</b>
CPA-140	i600, i700
CPA-142	i500 PLUS, i700 PLUS, i2000 PLUS, i85, i85-S, i360, i370, i500, i760, i830, i836
CPA-144	i530, i710, i730
CPA-146	i205, i305
CPA-147	i90c
	<b>NOKIA*</b>
CPA-123	3585i
CPA-130	232, 2110, 2120, 2160, 2190
CPA-131	252, 282
CPA-132	3285, 5110, 5120, 5160, 5165, 5180, 5180i, 5185i, 6110, 6120, 6150, 6160, 6190, 6210, 6310, 6340, 6340i, 6360, 7110, 7160, 7170
CPA-135	3310, 3360, 3390, 3395, 3560
CPA-136	8260
CPA-138	8265, 8265i
CPA-139	3587i, 3588, 3589i, 6010, 6015i, 6255i, 6620, 6682, 6103
CPA-171	6215i, 6305i, 6315i
	<b>SAMSUNG*</b>
CPA-123	SCH-1000, SCH-A310, SCH-A620, SCH-A670
CPA-126	SGH-E105
CPA-139	SGH-T319
CPA-171	SCH-8500, G-75
CPA-173	SCH-N200, SPH-N200
Limited Availability	CPA-175 X-427
CPA-178	SPH-A460
CPA-179	SCH-A650
CPA-180	SPH-A660, SCH-A860
	<b>SANYO*</b>
CPA-126	SCP-4700
CPA-131	SCP-3100
CPA-210	SCP-4500
Limited Availability	CPA-211 SCP-6400
CPA-212	SCP-8100, SCP-8200
CPA-214	SCP-4900
CPA-215	SCP-7300
	<b>SEIMENS*</b>
CPA-230	S56
	<b>TOUCHPOINT*</b>
CPA-132	1100, 220

# GALAXY®

**2-YEAR  
WARRANTY**



**CDP-2**  
**Dash Mount Connector**  
for Shakespeare CPA Cables!  
(See page 22 for more information)



# Galaxy® Cellular Cables

These innovative adapters make it easy to attach a cell phone to your boat's cellular antenna. One end of the tough, flexible 5' cable has a connector designed for specific cell phones. The other end has a female "TNC" that easily connects to most marine cellular antennas. Models are available for the most popular cell phones.



CPA-110



CPA-120



CPA-123



CPA-124



CPA-126



CPA-130



CPA-131



CPA-132



CPA-135



CPA-136



CPA-138



CPA-139



CPA-140



CPA-142



CPA-144



CPA-146



CPA-147



CPA-155



CPA-156



CPA-157  
Limited Availability



CPA-158  
Limited Availability



CPA-159



CPA-171



CPA-173



CPA-175  
Limited Availability



CPA-178



CPA-179



CPA-180



CPA-210



CPA-211



CPA-212



CPA-214



CPA-215



CPA-220



CPA-230



CPA-240



CPA-241

Galaxy Cellular Cables

Cell phone models are constantly changing. Please contact Shakespeare for the availability of new adapter cables or check our web site [www.shakespeare-marine.com](http://www.shakespeare-marine.com).

# Galaxy® Satellite Radio Antennas

Satellite radio brings the comforts of home—plentiful news, sports, music, and entertainment—to your boat. Receiver and satellite radio service subscription required, available separately. For more information on the services visit [www.sirius.com](http://www.sirius.com).

## SRA-25

### Extra Low-Profile Satellite Radio Antenna Kit

#### Includes the SM-32 Mounting Kit

Satellite radio for your boat just got easier. And smaller! Specially designed for smaller boats that ply inland waters, Shakespeare's Galaxy SRA-25 Digital Satellite Radio Antenna sports an ultra-low-profile.

Tiny as it is, it delivers plenty: weather, news, music, sports, and entertainment from Sirius Satellite Radio. The versatile SRA-25 accommodates a variety of mounting methods, with or without running its cable through the mounting surface. It comes with a 25-foot cable.

Attaches to surfaces up to 1" thick via a  $\frac{5}{16}$ " diameter threaded shaft. Alternatively, use the included SM-32 Surface Mounting Kit to secure the antenna to flat surfaces where access to the area underneath is difficult.

Optional 35', 50', and 90' cable kits are available for all Sirius Satellite Radio receivers.

- Tiny! Only .75" high by 2.375" wide by 2" long
- No separate power cable required
- Single cable design for newer receivers
- 1 Year Shakespeare Limited Warranty

Mounting: Attaches to surface up to 1" thick via a  $\frac{5}{16}$ " diameter threaded shaft. Alternatively, use the included SM-32 Surface Mounting Kit to secure the antenna to flat surfaces.



## SRA-40

### Low-Profile Satellite Radio Antenna Kit

#### Includes the SM-31 Mounting Kit

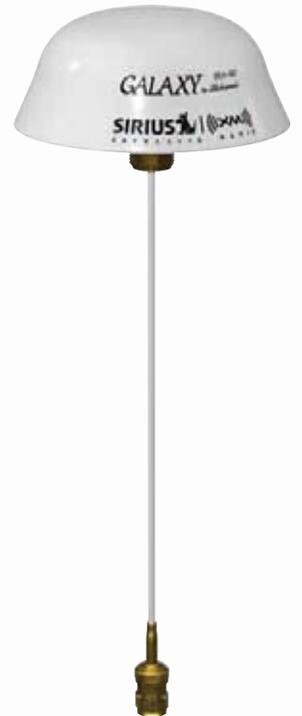
Designed especially for marine applications, the Galaxy SRA-40 Satellite Radio Antenna brings SIRIUS and XM Satellite Radio programming to your boat. The antenna's sleek, white, ASA plastic housing is unobtrusively low-profile at only 3.5" diameter by 1.35" high. Ideal for smaller vessels, it mounts on surfaces up to 1" thick, and comes with a special 25-foot low-loss cable with a quick disconnect, gold-plated, TNC connector at the base of the antenna.

Included with the SRA-40 is Shakespeare's unique SM-31 Pedestal kit for installations where direct access under the mounting surface is difficult or impossible. The system also provides standard 1"-14 threads.

Optional 35', 50', and 90' cable kits are available.

- Small! Only 3.5" diameter by 1.35" high
- No separate power cable required
- Single cable design for newer receivers
- 1 Year Shakespeare Limited Warranty

Mounting: Attaches to surface up to 1" thick via a  $\frac{5}{16}$ " diameter threaded shaft. Alternatively, use the included SM-31 Pedestal Mounting Kit. An optional SM-30 Surface Mount Kit is also available.



## SATELLITE ANTENNA ACCESSORIES

For longer cables, pick the appropriate length Shakespeare SRC Series cable kit for your installation. Connectors come pre-installed on all cables. These cable kits must be run as a single piece and cannot be joined together.

**SRS-3-KIT:** Use this splitter kit to connect two SIRIUS Satellite radio receivers to one SRA-40 or SRA-25. Comes with three 25' cables which permits up to a 50' cable run from the antenna to each receiver.

**SRC-25:** 25' replacement cable

**SRC-35:** 35' of marine-grade RG-58

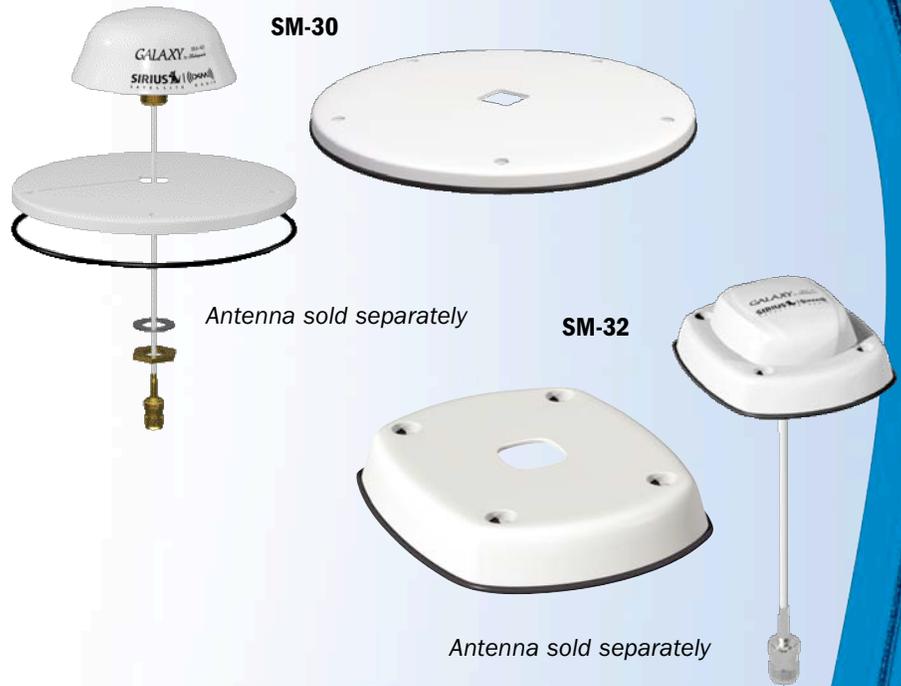
**SRC-50:** 50' of marine-grade RG-58

**SRC-90:** 90' of marine-grade RG-8/X

## SM-30 and SM-32

### Surface Mount Kits For Galaxy SRA-40 and SRA-25 Satellite Antennas

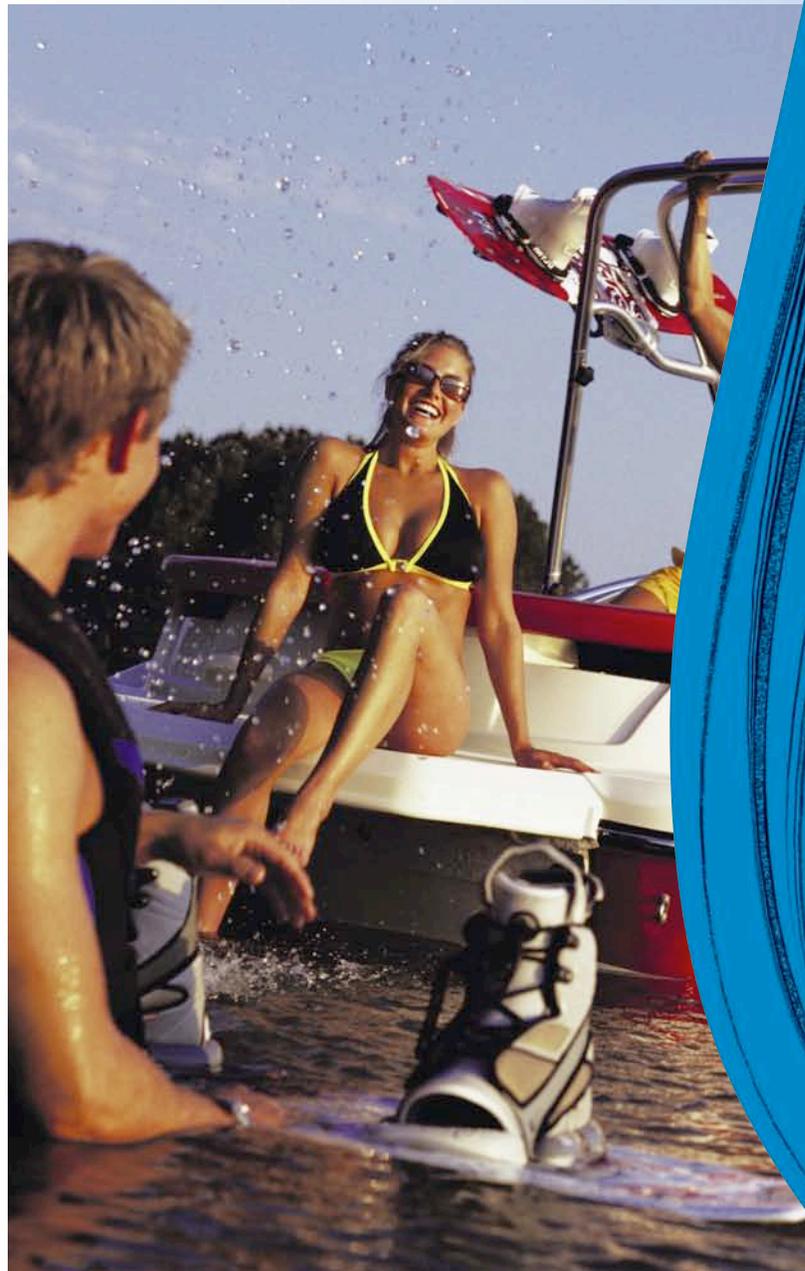
The SM-30 and SM-32 provide a convenient way to mount a Shakespeare Galaxy SRA-40 or SRA-25 Satellite Radio Antenna on radar arches, hard-tops, RV roofs or other surfaces where it's difficult or impossible to reach underneath to attach nuts and bolts. The kits allow mounting the antenna with or without sending the cable through the mounting surface. Simply assemble the antenna (sold separately) to the mounting plate and attach it to the surface using the supplied self-tapping screws with rubber gaskets. The cable can either exit the base at the side or pass through the mounting surface. Use the SM-30 with the SRA-40 and the SM-32 with the SRA-25.



## SM-31

### Pedestal Mounting Kit For Galaxy SRA-30 and SRA-40 Satellite Antennas

This innovative and stylish kit provides an adapter base with 1"-14 female threads for mounting Galaxy SRA-30 and SRA-40 Satellite Radio Antennas on standard extension masts or the supplied Flange Base. Use the SM-31 where direct access under the mounting surface is difficult or impossible. Gaskets seal the installation against moisture. Cable can either exit the base at the side or pass through the mounting surface. SRA-30 antenna sold separately. The SM-31 is included with the SRA-40 Antenna Kit.



Galaxy Satellite Radio Antennas

**GALAXY**

**1 YEAR  
WARRANTY**



## Galaxy® AM/FM Antennas

Let the fun begin! Tune in to your favorite stations for news, weather, sports, and entertainment. Shakespeare Galaxy AM/FM entertainment-band antennas bring in the signals. Well designed, well made, and beautifully crafted, they match our other Galaxy antennas for a great look on your boat.

### 5235-XT

#### 8' AM/FM Entertainment Band

This antenna reaches out to pick up those AM/FM signals from afar. Its 8' length offers the extra reach, while mirroring the sleek design of Shakespeare's other Galaxy antennas.

- Copper elements for maximum range
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 20' RG-62 cable with Motorola type plug installed
- Suggested mount: Style 4187 or 5187

### 5420-XT LITTLE GIANT™

#### 4' AM/FM Entertainment Band

Bring in those stations! This Little Giant is in charge of the entertainment. Its sturdy construction and outstanding performance make it an excellent choice for T-tops, Hard-tops and other elevated mounting positions. Extra rigid, extra-tough.

- Copper elements
- High-gloss, non-yellowing polyurethane finish
- Stainless steel ferrule with standard 1"-14 thread
- Includes 12' RG-62 cable with Motorola type plug installed
- Suggested mount: Style 4187 or 5187

### 5421-XT LITTLE GIANT™

#### 4' AM/FM Entertainment Band

Same as the 5420-XT with an exclusive black Galaxy finish.

- Copper elements
- Stainless steel ferrule with standard 1"-14 thread
- Includes 12' RG-62 cable with Motorola type plug installed
- Suggested mount: Style 4187 or 5187

# Galaxy® Extension Masts

## 5228

### 8' Heavy-Duty Extension Mast

Constructed with high-quality white Shakespeare fiberglass, and finished to match Galaxy antennas. This 1½" diameter extension mast can be used to increase height of an antenna and thus improve effective range, or to boost placement of an antenna above on-board obstructions.

- Stainless steel upper and lower ferrules with standard 1"-14 thread
- High-gloss, non-yellowing polyurethane finish
- Mount: A Style 409-R or 410-R Mounting Kit is required
- One section, actual length 95"



## 5228-4

### 4' Heavy-Duty Extension Mast

Like the 5228, but 4' length (nominal).

- Mount: Shakespeare Style 409-R or 410-R Mounting Kit
- One section, actual length 44"



## 5228-2

### 2' Heavy-Duty Extension Mast

Like the 5228, but 2' length (nominal) with a 1" diameter. Use for light to moderate applications. Excellent for use with GPS or TV antennas to clear on-board obstructions.

- Suggested mount: Shakespeare Style 4187 or 5187 Ratchet Mount
- One section, actual length 24"



## 5228-1

### 1' Heavy-Duty Extension Mast

Like the 5228-2, but 1' length (nominal), with a 1" diameter. Use for light to moderate applications. Great for GPS and TV antennas.

- Suggested mount: Shakespeare Style 4187 or 5187 Ratchet Mount
- One section, actual length 12"

## 4700-2 Extension Mast Stainless Steel

Heavy-duty stainless steel extension masts with standard 1"-14 thread with male and female fittings.

- 2' long

## 4700-1 Extension Mast Stainless Steel

Heavy-duty stainless steel extension masts with standard 1"-14 thread with male and female fittings.

- 1' long

## 4700 Extension Mast Stainless Steel

Heavy-duty stainless steel extension masts with standard 1"-14 thread with male and female fittings.

- 6" long



**GALAXY®**

Galaxy Extension Masts

# Centennial<sup>®</sup> Antenna Series

Developed to celebrate our first hundred years, Shakespeare Centennial antennas pack some of our most desired high-end features into affordable, mid-range, 8-foot antennas. Features include brass and copper elements, chrome plated brass ferrules, and a smooth, high-gloss finish that won't turn yellow in the sun. Great performance and great value.

*Centennial Series Antennas are not recommended for mounting on hard-tops.*

Centennial Series



*Centennial<sup>®</sup>*

## 5101 CENTENNIAL®

8' VHF 6dB Gain

### End-Fed with Matching Stub

A new standard of excellence in an economical antenna! Shakespeare brings you the best of the high-end features in an 8' antenna with brass elements and a smooth, high gloss, polyurethane finish that won't turn yellow in the sun. This antenna delivers not only performance, but superb value.

- Brass and copper elements
- Chrome-plated brass ferrule with standard 1"-14 thread
- Includes 15' RG-58 cable and a PL-259 connector
- Suggested mount: Style 4187, 5187 Ratchet Mounts, or use a 410-R Mounting Kit plus 4008 Extension Mast to form a 16' antenna system
- One section

**Max. Power Input:** 50 watts

**SWR Nominally:** 1.5:1 at 156.8 MHz

**Bandwidth:** 5 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** Yes



## 5120 CENTENNIAL®

8' AM/FM

### Includes Cable and Connector

Continuing the tradition, Shakespeare's Centennial 5120 AM/FM antenna puts high-end features where high-end does the most good. When you're far from your favorite stations, this antenna helps bring them in loud and clear without depleting your net worth.

- Chrome-plated brass ferrule with standard 1"-14 thread
- Includes 15' RG-62 cable and Motorola connector
- Suggested mount: Style 4187 or 5187 Ratchet Mounts
- One section

*Motorola plug is factory installed. Compatible with boat/car stereos.*



**NEW**

## 5104 CENTENNIAL®

4' VHF 3dB Gain

### End-Fed with Matching Stub

Four-foot, 3dB antenna with a great selection of high-end features. Brass and copper elements for performance, plus a smooth, high-gloss, polyurethane finish that won't turn yellow in the sun. Superb value, and excellent performance in a great looking antenna.

- Brass and copper elements
- Chrome-plated brass ferrule with standard 1"-14 thread
- Includes 15' RG-58 cable and a PL-259 connector
- Suggested mount: Style 4187, 5187 Ratchet Mounts
- One section

**Max. Power Input:** 50 watts

**SWR Nominally:** 1.5:1 at 156.8 MHz

**Bandwidth:** 5 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** Yes



## 5102 CENTENNIAL®

8' VHF 6dB Gain

### Collinear Phased 5/8-Wave

Shakespeare started its second century of innovation with the new Centennial antennas that bring the most wanted high-end features to mid-priced antennas. The Style 5102 carries on that tradition. The Centennial antennas have a high-gloss, polyurethane finish that won't turn yellow in the sun. Superb value and performance.

- Brass and copper elements
- Chrome-plated brass ferrule with standard 1"-14 thread
- Includes 15' RG-58 cable and a PL-259 connector
- Suggested mount: Style 4187 or 5187 Ratchet Mounts
- One section

**Max. Power Input:** 50 watts

**SWR Nominally:** 1.5:1 at 156.8 MHz

**Bandwidth:** 5 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No

SHAKESPEARE®

**2 YEAR  
WARRANTY**

### VHF Tech Tips

- All Shakespeare VHF Marine antenna cables can be shortened or lengthened with proper connectors
- Always match the mount material to the antenna ferrule material
- For a cleaner look, route the cable out the bottom of the antenna, through the top center hole of the antenna mount

Centennial Series

# Classic VHF Stowable Antennas

## 5912

**7" VHF Unity Gain**

### Flexible Antenna

Designed especially for small boat applications needing only short-range communications, the style 5912 is a small, space-saving antenna that attaches and detaches with ease, once the included Flush Mounting Kit has been installed. The connectors are gold plated for low-loss performance. It's compact, lightweight, and easily stored.

- Space-saving design
- Quick, easy setup
- Gold-plated Flush Mounting Kit included

**Max. Power Input:** 25 watts

**Bandwidth:** N/A

**Frequency:** VHF Marine Band

**DC Grounding:** No



## 5218

**19" VHF Unity Gain**

### Base-Load Magnetic Mount Stainless Steel Whip

This small, stainless steel whip antenna features a magnetic mount, for fast and easy attachment to magnet-friendly surfaces. You can set this one up in a hurry, and detach it easily.

- Black stainless steel whip
- Black magnetic mount included
- Includes 15' of RG-58 cable and a PL-259 connector

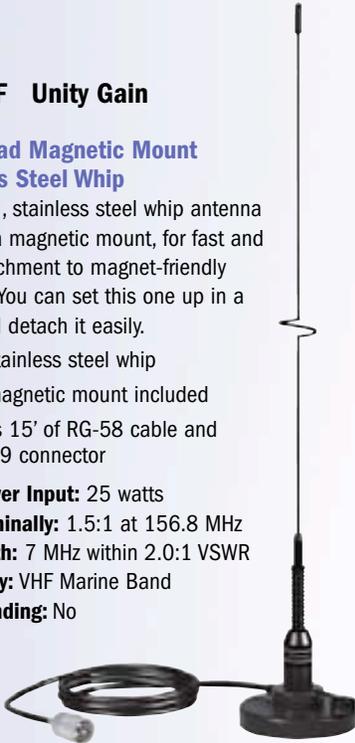
**Max. Power Input:** 25 watts

**SWR Nominally:** 1.5:1 at 156.8 MHz

**Bandwidth:** 7 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No



## 5911 The Stowaway™

**10" VHF Unity Gain**

### Emergency VHF Flex Antenna Loaded 1/4 Wave Whip

Comes packed in a 12" weather-resistant, plastic tube which can "stow away" in an easy-to-reach location for instant emergency capability if your main antenna becomes broken or disabled. Complete with 12' cable, connector, and rubber suction cup for fast, easy mounting to any smooth horizontal surface.

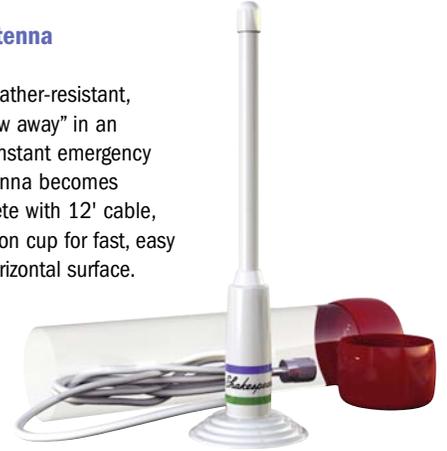
- Flexible vinyl outer covering
- 10" overall length
- Velcro strips for storage included

**Max. Power Input:** 25 watts

**Bandwidth:** N/A

**Frequency:** VHF Marine Band

**DC Grounding:** Yes



## 5910

**16" VHF Unity Gain  
9" (closed)**

### Emergency Stowable Whip

When you need a VHF antenna in an emergency, this one is easy to spot. It stores itself in a highly visible yellow, metal tube that becomes part of the antenna's handy mounting system. Pre-attach the mounting clip for quick and secure setup when it's needed. Closed, the style 5910 is only 9" long and only 16" long when fully assembled. It includes 20' of RG-174 mini coax with PL-259 connector pre-installed.

- Convenient hanger for easy mounting
- Special matching network optimizes performance
- Built-in mount
- Two sections

**Max. Power Input:** 25 watts

**Bandwidth:** N/A

**Frequency:** VHF Marine Band

**DC Grounding:** No



*Classic*  
SHAKESPEARE®  
**2 YEAR  
WARRANTY**

# Classic VHF Marine Antennas



## 5250 Skinny Mini™

36" VHF 3dB Gain

### Low Profile End-Fed 1/2-Wave

This compact, lightweight antenna is ideal for vessels where space is limited such as bass boats and center console fishing vessels. Its chrome plated brass canister minimizes the de-tuning associated with antennas that have plastic canisters.

- Stainless steel whip (36")
- Sealed, tin-plated copper wire coil
- Requires mount with center hole for passage of the supplied 15' RG-58 cable
- Cable and PL-259 connector included
- Suggested mount: Style 4187, 5187, 4188-S, or 4190 Ratchet Mounts
- One section

**Max. Power Input:** 50 watts  
**SWR Nominally:** 1.5:1 at 156.8 MHz  
**Bandwidth:** 7 MHz within 2.0:1 VSWR  
**Frequency:** VHF Marine Band  
**DC Grounding:** No



## 5250-AIS Skinny Mini™

36" VHF 3dB Gain

### Low Profile End-Fed 1/2-Wave

Designed to meet the broader bandwidth requirements of all popular AIS transceivers, this antenna mounts with ease. Its compact size will be welcome aboard any vessel. Chrome plated brass canister minimizes the de-tuning associated with antennas having plastic canisters.

- Built for AIS transceivers
- Sealed, tin-plated copper wire coil
- Stainless steel whip (36")
- Requires mount with center hole for passage of the supplied 15' RG-58 cable; PL-259 connector included
- Suggested mount: Style 4187, 5187, 4188-S, or 4190 Ratchet Mounts
- One section

**Max. Power Input:** 50 watts  
**SWR Nominally:** 1.5:1 at 162 MHz  
**Bandwidth:** 7 MHz within 2.0:1 VSWR  
**Frequency:** VHF Marine Band  
**DC Grounding:** No



## 5241-R

36" VHF 3dB Gain

### Low Profile End-Fed 1/2-Wave with Heavy-Duty Whip

The perfect choice for bass boats, center console fishing boats, or any vessel where compact size is most important. Comes with a heavy-duty stainless steel whip for extra stability at high speeds. Chrome plated brass canister minimizes de-tuning.

- Sealed, tin-plated copper wire coil
- Stainless steel whip (36")
- Requires mount with center hole for passage of the supplied 15' RG-58 cable; PL-259 connector included
- Suggested mount: Style 4187, 5187, 4188-S, or 4190 Ratchet Mounts
- One section

**Max. Power Input:** 50 watts  
**SWR Nominally:** 1.5:1 at 156.8 MHz  
**Bandwidth:** 7 MHz within 2.0:1 VSWR  
**Frequency:** VHF Marine Band  
**DC Grounding:** No

## 5240-R

36" VHF 3dB Gain

### Low Profile End-Fed 1/2-Wave

Same as the style 5241-R, but with a thinner standard-duty stainless steel whip.



Classic VHF



## 5242-A

**36" VHF 3dB Gain**

### Low Profile End-Fed 1/2-Wave

This legacy style is coming back due to customer request. A convenient press-and-twist bayonet has been re-designed and improved for extra convenience.

- Stainless steel whip
- SO-239 connector
- "L" bracket included for mounting to a vertical surface
- Coax and PL-259 connector sold separately
- One section

**Max. Power Input:** 50 watts  
**SWR Nominally:** 1.5:1 at 156.8 MHz  
**Bandwidth:** 7 MHz within 2.0:1 VSWR  
**Frequency:** VHF Marine Band  
**DC Grounding:** No



## 5247-A

**36" VHF 3dB Gain**

### Low Profile End-Fed 1/2-Wave with Heavy-Duty Lift-N-Lay Whip

The Style 5247-A is a 3dB base load antenna with a three-foot, extra heavy-duty, stainless steel whip that Lifts-n-Lays down so that it's out of the way for fishing, trailering, boat covers, or storage. The Lift-n-Lay feature makes the antenna extra easy to set up and lay down. Superb value, performance, and convenience. A right-angle "L" bracket is included for side mounting.

- Sealed, copper wire coil
- 36" extra heavy-duty stainless steel whip minimizes flexing at high speeds
- SO-239 connector
- "L" bracket included for mounting to a vertical surface
- Coax and PL-259 connector sold separately
- One section

**Max. Power Input:** 50 watts  
**SWR Nominally:** 1.5:1 at 156.8 MHz  
**Bandwidth:** 7 MHz within 2.0:1 VSWR  
**Frequency:** VHF Marine Band  
**DC Grounding:** No



**NOW with "L" Bracket**

*The Lift-n-Lay whip feature makes it easy to lay this antenna down and out of the way.*

## 420

5' VHF 3dB Gain

### Center-Fed 1/2-Wave Coaxial Sleeve

Shakespeare's most economical 5' antenna package. The 420 is a great, basic 3dB antenna for day-to-day cruising in calm to moderate seas. The antenna has an integral polycarbonate Lift-n-Lay mount for deck mounting, and comes with a leveling plate and installation hardware.

- Brass and copper elements
- Includes 15' RG-58 cable and a PL-259 connector
- Integral deck mount
- One section

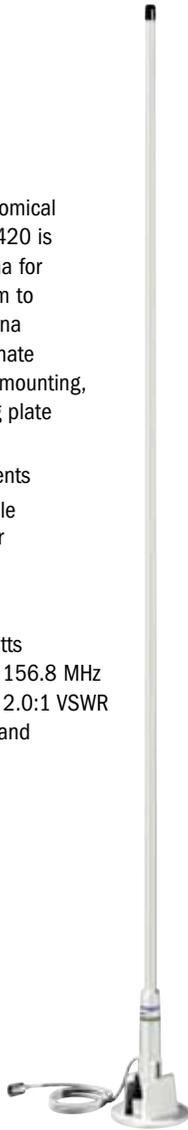
**Max. Power Input:** 50 watts

**SWR Nominally:** 1.5:1 at 156.8 MHz

**Bandwidth:** 5 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No



## 396-1

5' VHF 3dB Gain

### Center-Fed 1/2-Wave Coaxial Sleeve

This basic 3dB antenna, designed to reduce signal fading in rough seas, gives an outstanding performance. This is probably the most widely used antenna on Coast Guard vessels.

- Brass and copper elements
- Chrome-plated brass ferrule with standard 1"-14 thread
- Includes 15' RG-58 cable and a PL-259 connector
- Suggested mount: Style 4187 or 5187 Ratchet Mounts
- One section

**Max. Power Input:** 50 watts

**SWR Nominally:** 1.5:1 at 156.8 MHz

**Bandwidth:** 5 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No



## 396-1-AIS

4' VHF 3dB Gain

### Mast Mount AIS Antenna

The 396-1-AIS has been specially designed to meet the broader bandwidth requirements of all popular AIS transceivers.

Commercial-grade construction with a mast mounting sleeve.

- Brass and copper elements
- SO-239 connector at the base
- Suggested Mount: U-Bolts included; Or use optional 4715 mounting clamps - see page 49
- Coax Cable: Not supplied

**Max. Power Input:** 50 watts

**SWR Nominally:** 1.5:1 at 158 MHz

**Bandwidth:** 6 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No



## DOODAD®

### CABLE STRAIN RELIEF

Supplied with all VHF Antennas.



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SHAKESPEARE®

**2 YEAR  
WARRANTY**

Classic VHF

## 5206-N

**8' VHF 6dB Gain**

### End-Fed with Matching Stub

Same as the Style 5206-C, but the 5206-N has a nylon ferrule.

- Suggested mount: Style 495 Lift-n-Lay Mount or Style 4186 Ratchet Mount

**Max. Power Input:** 50 watts

**SWR Nominally:** 1.5:1 at 156.8 MHz

**Bandwidth:** 3 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No

## 5206-C

**8' VHF 6dB Gain**

### End-Fed with Matching Stub

An economical and lightweight, self-supporting antenna for good communications where range is not the predominant factor.

- Quality copper cable elements for good range and efficiency
- Chrome-plated brass ferrule with standard 1"-14 thread
- Includes 15' RG-58 cable and a PL-259 connector
- Suggested mount: Style 4187 or 5187 Ratchet Mounts or use a 410-R Mounting Kit and a 4008 Extension Mast to form a 16' antenna system
- Twin to: 5205 and 5207 CB antennas
- One section

**Max. Power Input:** 50 watts

**SWR Nominally:** 1.5:1 at 156.8 MHz

**Bandwidth:** 3 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No

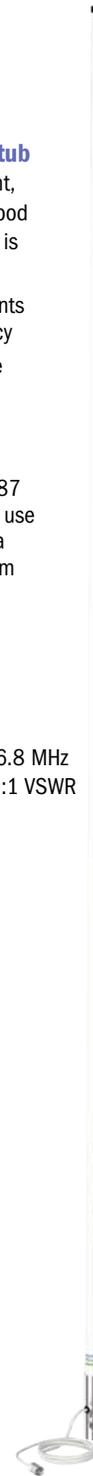
## 5206-BL-C

**8' VHF 6dB Gain**

### End-Fed with Matching Stub

Same as the Style 5206-C, but with an attractive black finish.

- Suggested mount: Style 4187 or 5187 Ratchet Mounts



*Supplied with matching black cable and connector.*

## Mounts & Accessories

Shakespeare has a full line of mounts and accessories. See page 48-49 for more details.



5187



4187



4188-S

*5206 Series Antennas are not recommended for mounting on hard-tops.*

## 5202 8' VHF 6dB Gain

### Collinear Phased 5/8-Wave

A favorite of maritime professionals, this rugged antenna boasts an extra heavy-duty radome and powerful internal elements for reliable service day after day under the most demanding conditions.

- Brass and copper elements for maximum range and efficiency
- Chrome-plated brass ferrule with standard 1"-14 thread
- Includes 20' RG-58 cable and a PL-259 connector
- Suggested mount: Style 4187, 5187 Ratchet Mounts, or use a 410-R Mounting Kit plus 4008 Extension Mast to form a 16' antenna system
- Twin to: 5205 and 5207 CB antennas
- One section

**Max. Power Input:** 50 watts  
**SWR Nominally:** 1.5:1 at 156.8 MHz  
**Bandwidth:** 6 MHz within 2.0:1 VSWR  
**Frequency:** VHF Marine Band  
**DC Grounding:** Yes



## 399-1 9'6" VHF 6dB Gain

### Collinear Phased 5/8-Wave with Two Coaxial Chokes to Suppress Cable Radiation

This professional quality antenna combines strength and performance for use where you really need the efficiency of a large antenna, but don't have room for one.

- Brass and copper elements
- Chrome-plated brass ferrule with standard 1"-14 thread
- Includes 15' RG-58 cable and a PL-259 connector
- Suggested mount: Style 409-R or 410-R Mounting Kit for deck or side mounting
- Two sections: Base 75", Tip 39" - UPS shippable

**Max. Power Input:** 100 watts  
**SWR Nominally:** 1.5:1 at 156.8 MHz  
**Bandwidth:** 5 MHz within 2.0:1 VSWR  
**Frequency:** VHF Marine Band  
**DC Grounding:** Yes



Support bracket should be mounted 1'-3' up from base for this antenna.



Mount kit sold separately.

## 399-1M 9'6" VHF 6dB Gain

### Collinear Phased 5/8-Wave with Two Coaxial Chokes to Suppress Cable Radiation

Same as the 399-1, but it has a special aluminum sleeve for mast mounting.

- SO-239 connector at the base
- Suggested mount: 1 1/4" U-bolts are supplied; The 399-1M can be strapped to a larger mast using steel banding (not supplied); Or use optional 4715 mounting clamps - see page 49

**Max. Power Input:** 100 watts  
**SWR Nominally:** 1.5:1 at 156.8 MHz  
**Bandwidth:** 5 MHz within 2.0:1 VSWR  
**Frequency:** VHF Marine Band  
**DC Grounding:** Yes



All fiberglass should be even with or above the mast.

*Classic*  
 SHAKESPEARE®  
**2 YEAR WARRANTY**

Classic VHF

# Classic Commercial VHF/SSB Antennas

## Classic Commercial VHF/SSB



### 4018

#### 19' VHF 9dB Gain

##### Phased 1/2-Wave Elements in a Collinear Array with a Coaxial Choking Sleeve to Suppress Cable Radiation

The top choice for charter boat captains and experienced sport fishing enthusiasts. This long-distance VHF antenna is rigid enough to stay erect in rough seas, yet exceptionally lightweight.

- Brass and copper elements
- Chrome-plated brass ferrules
- Includes 20' RG-58 cable and a PL-259 connector
- Suggested mount: Style 409-R or 410-R Mounting Kit for deck or side mounting
- Two sections: Base 162", Tip 66"

**Max. Power Input:** 50 watts  
**SWR Nominally:** 1.5:1 at 156.8 MHz  
**Bandwidth:** 3 MHz within 2.0:1 VSWR  
**Frequency:** VHF Marine Band  
**DC Grounding:** No



Support bracket should be mounted 3'-5' up from base on 19' antennas.

Mount kit sold separately.

*Classic*

SHAKESPEARE®

**2 YEAR  
WARRANTY**

## 4018-M

### 19' VHF 9dB Gain

#### Phased 1/2-Wave Elements in a Collinear Array with a Coaxial Choking Sleeve to Suppress Cable Radiation

Same as Style 4018 with a special sleeve for mast mounting. Used primarily for land-based stations and on commercial vessels.

- Brass and copper elements
- Mid-section ferrules: chrome-plated brass; bottom ferrule: aluminum sleeve
- SO-239 connector at base
- Suggested mount: Mast mount using supplied 1 $\frac{3}{8}$ " U-bolts; Or use optional 4715 mounting clamps - see page 49
- Two sections: Base 162", Tip 66"

**Max. Power Input:** 50 watts

**SWR Nominally:** 1.5:1 at 156.8 MHz

**Bandwidth:** 3 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No

## 4715

### Mounting Clamps

See page 49 for more details.



All fiberglass should be even with or above the mast.

## 5208-R

### 23' VHF 9dB Gain

#### Phased 1/2-Wave Elements in a Collinear Array with a Choking Stub to Suppress Cable Radiation and a Band Spread Matching Sleeve

The Style 5208 delivers performance and then some. Its nine phased 1/2-wave element, 23' design means long distance communications in heavy seas—no problem!

- Brass and copper elements
- Chrome-plated brass ferrules
- Includes 15' RG-58 cable and a PL-259 connector
- Suggested mount: Style 409-R or 410-R Mounting Kit for deck or side mounting
- Twin to: Style 5308-R SSB
- Two sections: Base 162", Tip 114"

**Max. Power Input:** 50 watts

**SWR Nominally:** 1.5:1 at 156.8 MHz

**Bandwidth:** 3 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No



Support bracket should be mounted 5'-7" up from base on 23' antennas.

## 5208-3

### 23' VHF 9dB Gain

#### Phased 1/2-Wave Elements in a Collinear Array with Choking Stub to Suppress Cable Radiation and a Band Spread Matching Sleeve

The Style 5208-3 puts all the quality and performance of Shakespeare's Ocean Twin 5208-R into a three-section configuration. The Style 5208-3 is UPS shippable.

- Brass and copper elements
- Chrome-plated brass ferrules
- Includes 20' RG-58 cable and a PL-259 connector
- Suggested mount: Style 409-R or 410-R Mounting Kit for deck or side mounting
- Three sections: Base 75", Middle 100", Tip 105"-UPS shippable

**Max. Power Input:** 50 watts

**SWR Nominally:** 1.5:1 at 156.8 MHz

**Bandwidth:** 3 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No

Mount kit sold separately.

## 476

21' VHF 10dB Gain

### Phased 1/2-Wave Elements in a Collinear Array with a Broadband Matching Section and a Coaxial Choking Sleeve

Designed to get the message through when all others fail. Its unique design puts the signal on the horizon, providing gain in all directions. For heavy-duty seagoing applications, such as workboats, tugs, tidal well service boats, etc. An excellent choice for land-based stations.

- Brass and copper internal elements
- SO-239 connector at the base
- Mount: The 476 has a 2 3/4" diameter x 26" long 6061-T-6 aluminum sleeve which can be strapped directly to a mast or used with Shakespeare Style 483 Clamp Set or Style 484 Wall Mounting Brackets
- One section

**Max. Power Input:** 350 watts  
**SWR Nominally:** 1.5:1 at 156.8 MHz  
**Bandwidth:** 10 MHz within 2.0:1 VSWR  
**Frequency:** VHF Marine Band  
**DC Grounding:** Yes

## 484

### Wall Brackets

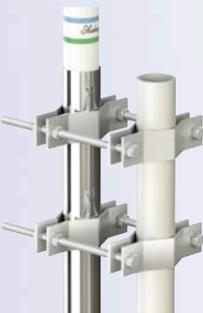
Heavy-duty galvanized steel.  
 Wall brackets sold separately.



## 483

### Mast Clamp

Heavy-duty galvanized steel.  
 Mast clamp sold separately.



## 5308-R OCEAN TWIN™

23' HF/SSB

### Whip Antenna, Full-Length Conductors

The Style 5308 is a rugged performer for day to day communications. Conductors run the full length and are permanently sealed in Shakespeare white fiberglass. Input power up to 1 kw.

- Chrome-plated brass ferrules
- Side feed termination band
- Suggested mount: Style 409-R or 410-R Mounting Kit for deck or side mounting
- Twin to: Style 5208-R
- Two sections: Base 162", Tip 114"

**Max. Power Input:** 1kw  
**Resonant Frequency:** 10.8 MHz  
**Frequency:** 2-30 MHz with tuner (tuner not supplied)



Support bracket should be mounted 5'-7' up from base on 23' antennas.

## 390

23' HF/SSB

### Whip Antenna with Conductors Running Full-Length (No Loading Coil)

This award-winning performer is often referred to as "the standard of the industry" by virtue of its capabilities and popularity. Reinforced insulating qualities allow input power up to 1 kw. Conductors are permanently sealed in white Shakespeare fiberglass.

- Chrome-plated brass ferrules, bottom ferrule has 1"-14 thread
- Side feed termination band
- Suggested mount: Style 409-R or 410-R Mounting Kit
- Two sections: Base 162", Tip 112"

**Max. Power Input:** 1kw  
**Resonant Frequency:** 10.8 MHz  
**Frequency:** 2-30 MHz with tuner (tuner not supplied)

## 390-1 VHF SSB

Same as the 390 only with anodized Almag 35 aluminum base flange and side feed termination band.



Base is 6" in diameter. Cable sold separately.

Mount kit and cable sold separately.

Mount kit and cable sold separately.

**393**  
**23' HF/SSB**

**Whip Antenna with Conductors Running Full Length (No Loading Coil)**

The Style 393 antenna is electrically the same as the industry standard Style 390, but it's designed in three sections, so it can be shipped conveniently by UPS. For use in calm to moderate seas.

- Chrome-plated brass ferrules, bottom ferrule has 1"-14 thread
- Side feed termination band
- Suggested mount: Style 409-R or 410-R Mounting Kit for deck or side mounting
- Three sections: Base 92", Center 92", Tip 92"-UPS shippable

**Max. Power Input:** 1kw  
**Resonant Frequency:** 10.8 MHz  
**Frequency:** 2-30 MHz with tuner (tuner not supplied)



Support bracket should be mounted 5'-7' up from base on 23' antennas.

**HF/SSB Tech Tips**

- HF/SSB antennas require GTO-15 high voltage cable
- Consult a local installer for ground plane requirements
- Separate antenna tuner required for most SSB radios - Consult radio manufacturer

Mount kit and cable sold separately.

**4328**  
**28' HF/SSB**

**Self Supporting Whip Antenna with Conductors Running Full Length (No Loading Coil)**

This commercial antenna is designed for large vessels where highest HF-band performance is required. The two-piece Style 4328 easily accommodates input up to 1 kilowatt. It's white Shakespeare fiberglass, and has a built in flange base for mounting as a self-supporting antenna.

- Chrome-plated brass center fittings, anodized aluminum mounting flange
- Side-feed termination band
- Two sections: Base 192", Tip 144"

**Max. Power Input:** 1kw  
**Resonant Frequency:** 8.4 MHz  
**Frequency:** 2-30 MHz with tuner (tuner not supplied)



Base is 7" in diameter. Cable sold separately.

**5300**  
**28' HF/SSB**

**Whip Antenna with Conductors Running Full Length (No Loading Coil)**

This heavy-duty performer is designed primarily for larger commercial vessels which demand peak performance over the entire HF marine band. Input power up to 1kw. Conductors are permanently sealed in white Shakespeare fiberglass.

- Chrome-plated brass center fittings; anodized aluminum bottom ferrule
- Side feed termination band
- Mount: The 2 3/8" diameter x 24" long 6061-T-6 anodized aluminum sleeve can be strapped directly to a mast or used with Shakespeare's Style 483 Clamp Set or Style 484 Wall Mounting Brackets.
- Two sections: Base 192", Tip 144"

**Max. Power Input:** 1kw  
**Resonant Frequency:** 8.4 MHz  
**Frequency:** 2-30 MHz with tuner (tuner not supplied)

Cable sold separately.

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SHAKESPEARE®

**2 YEAR WARRANTY**

Classic Commercial VHF & SSB

## 5215 SQUATTY BODY®

**36" VHF 3dB Gain**

### End-Fed 1/2-Wave Stainless Steel Whip

A favorite with Sailboat owners, this lightweight, low profile, stainless steel antenna was specially designed for masthead mounting.

- Sealed, tin-plated copper wire coil
- Stainless steel whip
- SO-239 connector
- Mount: Stainless steel "L" bracket supplied or use optional 4716 or 4717

**Max. Power Input:** 50 watts

**SWR Nominally:** 1.5:1 at 156.8 MHz

**Bandwidth:** 7 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No

## 5215-C-X SQUATTY BODY®

**36" VHF 3dB Gain**

Same as the Style 5215 but comes with 60' RG-8/X low-loss cable and PL-259 connectors.



## 5215-AIS SQUATTY BODY®

**36" VHF 3dB Gain**

### End-Fed 1/2-Wave Stainless Steel Whip

Sailboat owners will love this version of their longtime favorite, our Style 5215. Its the same lightweight, low-profile, stainless steel antenna, specially designed for masthead mounting and built with extra bandwidth for all popular AIS transceivers.

- Designed specifically for AIS transceivers
- Sealed, tin-plated copper wire coil
- Stainless steel body and 36" whip
- SO-239 connector
- Mount: Stainless steel "L" bracket supplied or use optional 4716 or 4717
- One section

**Max. Power Input:** 50 watts

**SWR Nominally:** 1.5:1 at 162 MHz

**Bandwidth:** 7 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No

**NEW**

## 5215-HAM

**38" 2-Meter HAM Band 3dB Gain**

### End-Fed 1/2-Wave Stainless Steel Whip

A sailboat's mast makes a great place to put an antenna, and for Amateur Radio enthusiasts, Shakespeare offers this lightweight, low profile antenna specially designed for masttops. The antenna gets you on the air with 3dB gain and a stainless steel whip.

- Sealed, tin-plated copper wire coil
- Stainless steel whip
- SO-239 connector
- Mount: Stainless steel "L" bracket supplied or use optional 4716 or 4717

**Max. Power Input:** 50 watts

**SWR Nominally:** 1.2:1 at 146 MHz

**Bandwidth:** 8 MHz within 2.0:1 VSWR

**Frequency:** 2-Meter HAM Band

**DC Grounding:** No

## 5216

**15" VHF Unity Gain**

### End-Fed, Center Loaded Stainless Steel Whip

Head for the regatta! This super lightweight black VHF Marine antenna is specially built for sailboat racers. It won't add much weight, while delivering the performance you need. Its 15" center-loaded design delivers Unity Gain, and it comes with a black "L" bracket for mounting atop your mast. Its connector is gold-plated, too.

- Small and extra lightweight
- Black stainless steel whip
- Black "L" bracket included for mast mounting

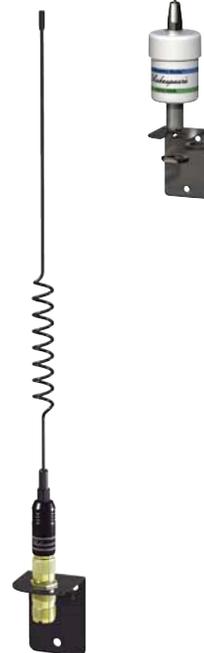
**Max. Power Input:** 25 watts

**SWR Nominally:** 1.5:1 at 156.8 MHz

**Bandwidth:** 5 MHz within 2.0:1 VSWR

**Frequency:** VHF Marine Band

**DC Grounding:** No



*Classic*

SHAKESPEARE®

**2 YEAR  
WARRANTY**

# Classic VHF Sailboat Antennas



Classic VHF Sailboat

# Classic CB Marine Antennas

Classic CB Marine



## 4050-B LITTLE GIANT™ 3' VHF Unity Gain

### Continuous-Load, End-Fed 1/2-Wave CB Antenna

A compact antenna with a built-in Lift-n-Lay mount. Great for bass and other boats where fishing over a 3' antenna is more desirable than greater range. Coil is permanently sealed in white, Shakespeare fiberglass.

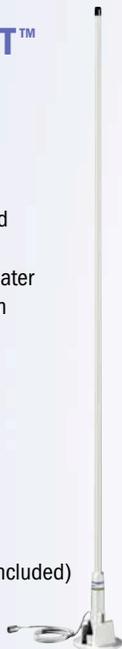
- Polycarbonate ferrule
- Includes 7' cable and a PL-259 connector. Can not be cut, but can be lengthened with suitable connectors and extension coax (sold separately)
- Mount: Integral polycarbonate Lift-n-Lay (installation hardware included)
- One section

**Max. Power Input:** 25 watts

**SWR Nominally:** 2.0:1 or less at Channel 19

**Frequency:** 27 MHz Citizens Band

**DC Grounding:** Yes



*Lift-n-Lay mount  
can also be locked in a  
right angled position.*

## 4051 LITTLE GIANT™ 3' VHF Unity Gain

### Continuous-Load, End-Fed 1/2-Wave CB Antenna

Ideal for bass boats, this antenna has a nylon ferrule for use with convenient ratchet mounts (sold separately), so it can be moved out of the way for fishing. Its coil is permanently sealed in white, Shakespeare fiberglass.

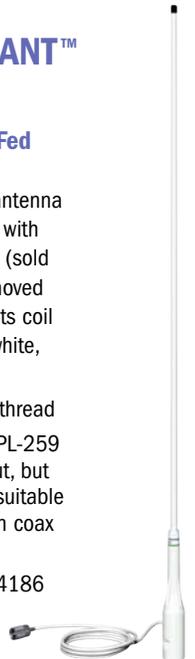
- Nylon ferrule with 1"-14 thread
- Includes 7' cable and a PL-259 connector. Can not be cut, but can be lengthened with suitable connectors and extension coax (sold separately)
- Suggested mount: Style 4186 Nylon Ratchet Mount
- One section

**Max. Power Input:** 25 watts

**SWR Nominally:** 2.0:1 or less at Channel 19

**Frequency:** 27 MHz Citizens Band

**DC Grounding:** Yes



## 5205 SALTY MATE™ 8' VHF Unity Gain

### Continuous-Load, End-Fed 1/2-Wave CB Antenna

The Style 5205 antenna is the perfect twin to Styles 5202 and 5206-C VHF antennas. The pair makes an exceptionally reliable communications system. Coil is permanently sealed in white Shakespeare fiberglass.

- Chrome-plated brass ferrule with 1"-14 thread
- Includes 7' cable and a PL-259 connector which cannot be cut or altered but can be lengthened with suitable connectors and 50-ohm coax (not supplied)
- Suggested mount: Style 4187 or 5187 Ratchet Mounts
- Twin to: Styles 5202 and 5206-C

**Max. Power Input:** 25 watts  
**SWR Nominally:** 1.5:1 or less at Channel 19  
**Frequency:** 27 MHz Citizens Band  
**DC Grounding:** Yes

## 5207 SEA MATE™ 8' VHF Unity Gain

### Continuous-Load, End-Fed 1/2-Wave CB Antenna

This outstanding antenna can be tuned for minimum VSWR and optimum performance. A VSWR meter (not supplied) is required for the tuning process. Needs only  $\frac{3}{8}$ " hole for passage of the coax.

- Chrome-plated brass ferrule with 1"-14 thread
- Includes 15' RG-58 cable, which can be cut to length, and a PL-259 connector
- Suggested mount: Style 4187 or 5187 Ratchet Mounts, or use a Style 409-R or 410-R Mounting Kit and a 4008 Extension Mast to form a 16' antenna system
- Twin to: Styles 5202 and 5206-C

**Max. Power Input:** 25 watts  
**SWR Nominally:** 1.5:1 or less at Channel 19  
**Frequency:** 27 MHz Citizens Band  
**DC Grounding:** Yes

## 176-1 MARINE BIG STICK™ 18' VHF 7.65dB Gain

### 1/2-Wave Coaxial CB Antenna

For work boat and large yacht installation, the 176-1 provides maximum performance and durability for long distance communication.

- Chrome-plated brass ferrules with 1"-14 thread
- SO-239 connector on the side of the ferrule
- Suggested mount: Style 409-R or 410-R Mounting Kit
- Two sections: Base 120", Tip 96"

**Max. Power Input:** 300 watts  
**SWR Nominally:** 1.5:1 or less at Channel 19  
**Frequency:** 27 MHz Citizens Band  
**DC Grounding:** Yes



The 5207 cable can be shortened or lengthed with proper connector.



Support bracket should be mounted 5'-7' up from base on 23' antennas.

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SHAKESPEARE®

**2 YEAR  
WARRANTY**

Classic CB Marine

# Classic SeaWatch® Marine TV Antennas

## SeaWatch Marine TV Antennas

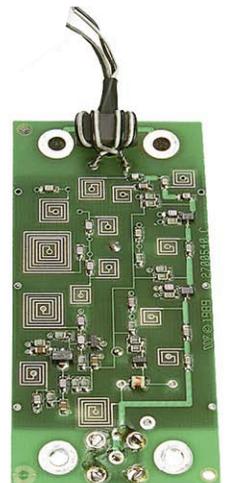


### SEAWATCH®

SeaWatch marine television antennas let you combine the comforts of home with the pleasures of boating, and never miss your favorite TV programs. **All Shakespeare TV antennas are digital and HDTV ready.**

High performance, and built to last.

- Weatherproof, non-fade exterior
- Solid-State electronics for reliability and resistance to mechanical shock, plus corrosion resistant coating
- Built-in low-noise amplifier
- Operates on 12 vDC or 110 vAC. Special 220 vAC and 12-24 vDC versions also available as styles 2020-GE and 2030-GE



Surface-Mount Technology and micro-electronics makes the sleek, modern packaging of these high performance omnidirectional SeaWatch Marine TV Antenna Systems possible.

**Digital  
HDTV Ready!**

- Omnidirectional antennas capture VHF, UHF, and FM from every point of the compass without aiming the antenna.
- Older analog TV sets require a digital converter box. Not Included.

## 2020-G SEAWATCH®

14" Diameter

### Omnidirectional Marine TV Antenna System

The ideal marine TV antenna when styling and size are the controlling factors. Perfect for close-in, or stronger signal areas. System includes antenna with built-in preamp, AC/DC power supply, 30' of ultra low-loss RG-59 coax cable, and gold-plated, screw-on "F" connectors. Built-in 1"-14 thread ferrule.

## 2025 SEAWATCH®

14" Diameter

### Omnidirectional Marine TV Antenna System with Variable Gain Control

You get plenty of choices with the omnidirectional SeaWatch 2025 Marine TV antenna system. Its sophisticated design lets you adjust its amplification for best picture quality. Crank up the Gain to a full +20dB where the stations are weak, or attenuate -10dB where the signals are strong. A convenient knob on its control panel makes adjustment easy. The panel offers a wide choice of mounting options. You can flush mount it, surface mount it, or attach it to the set-top. You choose!

The Style 2025's antenna head is as mechanically advanced as its controller. Simply clamp it onto any 1" diameter pipe or straight mount. As an added convenience, this sleek and stylish Marine TV antenna also provides an Auxiliary Input\* for Cable or Satellite. When the 2025 is turned off, the auxiliary input is automatically connected to the TV. This unique and handy feature eliminates the external "A/B" switches required by other systems.

## 2030-G SEAWATCH®

21" Diameter

### Omnidirectional Marine TV Antenna System

Designed for maximum omnidirectional performance in the marine environment, this system includes the antenna with built-in preamp, AC/DC switchable power supply, 30' of ultra low loss RG-59 coax, and gold-plated, screw-on "F" connectors. Built-in 1"-14 thread ferrule.

The 2025 comes complete with AC wall Adapter, 30' of ultra low-loss RG-59 coax and gold-plated, screw-on "F" connectors.

- Omnidirectional
- Innovative, dual-amplification design with Auxiliary Input\* for cable and satellite systems
- Adjustable Gain Control for best reception
- LED Power Indicators on both the Control Box and the Antenna Head
- Simple, versatile mounting systems for both control box and antenna
- 12-24 VDC or 110 VAC operation – AC Wall Adapter included
- 30' of RG-59 ultra low-loss coax and gold-plated "F" connectors included
- Pass-through Auxiliary Input
- Not recommended for Sailboat mast mounting



The low profile design and rugged construction of the SeaWatch 2025 make it ideal for commercial and recreational installations. Not compatible with the 4366 mount.

## 2025-CP

Control Panel

The control panel for the SeaWatch 2025 is available separately as an upgrade to other Shakespeare SeaWatch Marine TV antennas. It adds adjustable amplification and Cable and Satellite support to your existing SeaWatch antenna.



**SeaWatch®**

SHAKESPEARE®

**1 YEAR WARRANTY**

Specifications:	2020-G/2030-G	2025
Frequency Range	50-890 MHz	50-890 MHz
Gain	20 dB (avg.)	0 to +20 dB
Reception Pattern	omnidirectional	omnidirectional
Noise Figures (VHF/UHF)	3.2/5.6 dB	3.2/5.6 dB
Impedance	75 ohms	75 ohms
Download Connection	"F" type	"F" type
Power Consumption (at 12 vDC)	83 mA	<100 mA
Power Supply (switchable)	12vDC/110vAC	12vDC/110vAC with autosensing circuitry
Weight	3 lbs./11 lbs.	5 lbs.
Dimensions	(2020) 14" dia. x 2" H (2030) 21" dia. x 1.75" H	14.75"W x 16"L x 3.14"H (6.6" H with bracket)



### 4366 Sailboat Mast Mount

Aluminum, with supplied 1"-14 thread fitting for SeaWatch 2030 or SeaWatch 2020 Marine TV antennas.  
\*Not for use with SeaWatch 2025



### 4366-S Sailboat Mast Mount

Stainless steel, with standard 1"-14 thread fitting for all SeaWatch Marine TV antennas.



### PS-9381 Power Supply

Replacement part for the SeaWatch 2030 or the SeaWatch 2020 antenna systems.



### 4358

#### TV/AM/FM Stereo Band Separator

Complete with 12" cable and "Motorola-type" plugs for proper connection and impedance matching to AM/FM Stereo radios. Works with any 75 ohm TV antenna system.



### 4365

#### Straight Mount

4" high, 1"-14 thread stainless steel mount. Perfect for radar arches. May be used with Style 4364 extension mast.



### TV-1060/TV-1070

#### Screw-On Type "F" Connector

No soldering or crimping required.  
• Use TV-1060 for RG-59 cable  
• Use TV-1070 for RG-6 cable



All gold connectors are gold-plated brass.

### FS-8101-G

#### Gold-Plated "F" Type Barrel Connector



### 4364

#### 1' Extension Mast

One inch diameter extension mast for light to moderate-duty applications. White molded polycarbonate male upper and female lower 1"-14 threads.



# SeaWatch®

SHAKESPEARE®

**1 YEAR WARRANTY**

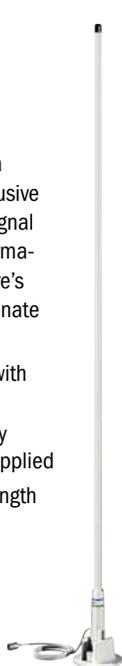
# Classic AM/FM Stereo

## 4350

### 3' AM/FM

This 3' combination antenna features Shakespeare's exclusive distributive load for super signal pulling power. The coil is permanently sealed in Shakespeare's white fiberglass. A polycarbonate Lift-n-Lay mount is included.

- Includes 10' RG-62 coax with Motorola plug
- Mount: Integrated Lift-n-Lay mount with hardware is supplied
- One section, 39" overall length

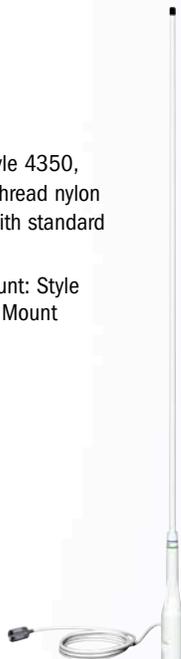


## 4351

### 3' AM/FM

Same as the Style 4350, but with 1"-14 thread nylon ferrule for use with standard marine mounts.

- Suggested mount: Style 4186 Ratchet Mount



## 5120 CENTENNIAL®

### 8' Length, AM/FM Antenna Includes Cable and Connector

Continuing the Centennial tradition, this AM/FM antenna puts high-end features where high-end does the most good. When you're far from your favorite stations, this antenna helps bring them in loud and clear, without depleting your net worth.

- Chrome-plated brass ferrule with standard 1"-14 thread
- Includes 15' RG-62 cable and Motorola connector
- Suggested mount: Style 4187 or 5187 Ratchet Mounts
- One section

## 4352

### AM/FM Stereo 10' Extension Cable Kit

The kit includes 93-ohm RG-62 cable with male and female Motorola connectors installed.



## 4357-S

### AM/FM/VHF Marine Band Separator

Eliminate the need for separate AM/FM antennas and operate AM/FM and VHF radios at the same time without interfering with VHF radio performance. Complete with 10' RG-62 AM/FM cable, 3' RG-58 VHF cable, and connectors.



## 4353

### On-Glass AM/FM Antenna

This innovative design lets you put an AM/FM antenna on your boat where it won't get in the way. It is a 24" clear tape with embedded antenna elements. Its permanent adhesive strip lets you attach it quickly and easily onto your boat's windshield or any smooth, nonmetallic surface. It comes with a 6' cable and attached "Motorola type" plug.



*Motorola plug is factory installed. Compatible with boat/car stereos.*

*Classic*

SHAKESPEARE®

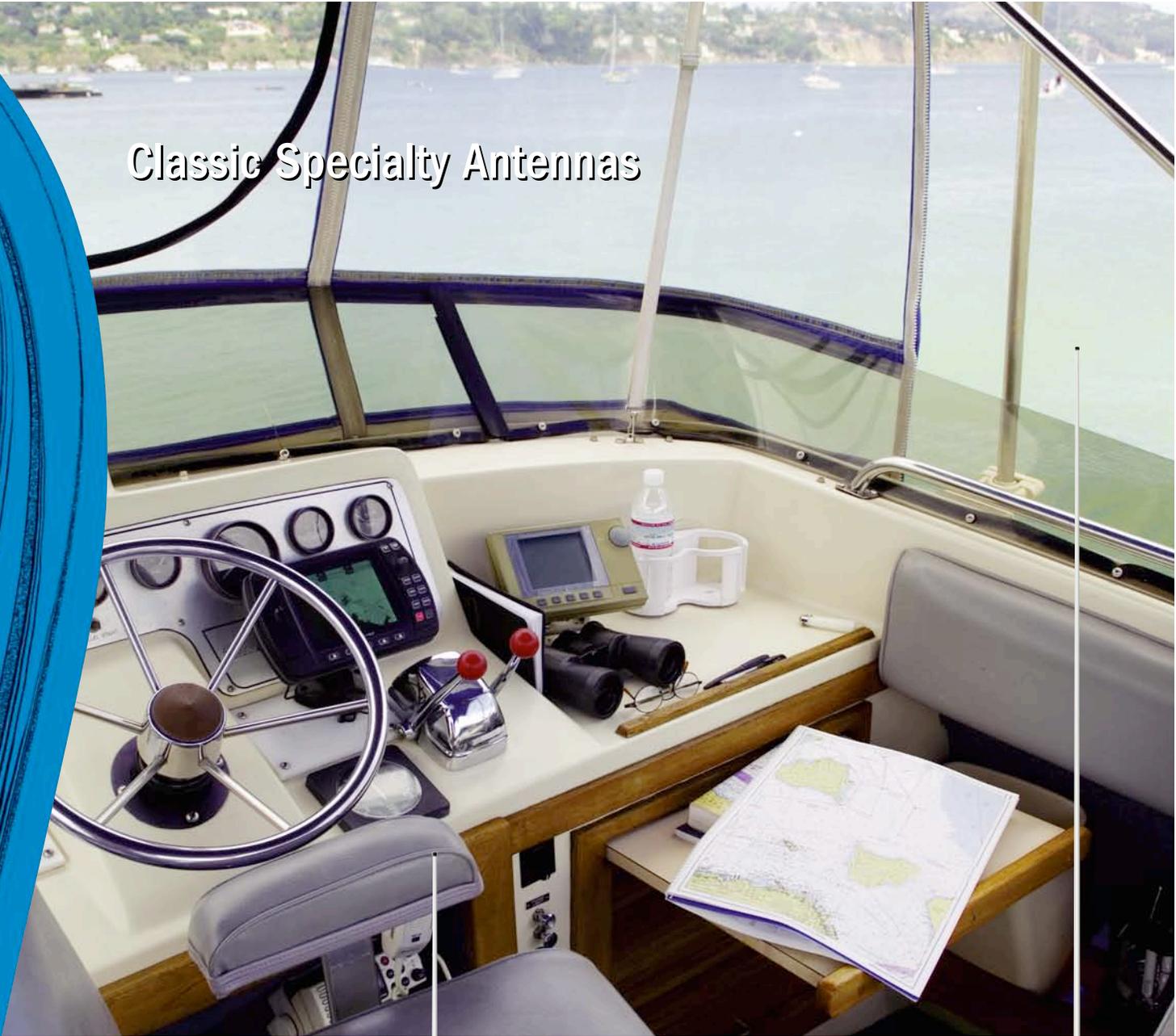
**2 YEAR WARRANTY**

**NOTE:** Shakespeare does not recommend cables run longer than 25' with AM/FM antenna systems.

Classic AM/FM Stereo

# Classic Specialty Antennas

Classic Specialty



## 173 4' Loran C/DGPS Whip

### Top-Loaded Fiberglass

Ideal for strong Loran C signal areas and inland waterways. Also recommended by most GPS manufacturers for use as a Differential Beacon Antenna.

- Chrome-plated brass ferrule with standard Loran C  $\frac{3}{8}$ "-24 thread
- One section
- *Loran coupler not included*

## 4208 NAVIGATOR™ 8' LORAN C WHIP

### (Formerly 10-3)

This popular Loran C antenna is recommended by virtually all Loran manufacturers. It has the same electrical specs as the famous Shakespeare Style 10-3.

- Chrome-plated brass ferrule with standard Loran C  $\frac{3}{8}$ "-24 thread
- One section
- *Loran coupler not included*

**NEW**

## 5215-HAM

**36" 2-Meter HAM Band 3dB Gain**

### End-Fed 1/2-Wave Stainless Steel Whip

A sailboat's mast makes a great place to put an antenna, and for Amateur Radio enthusiasts, Shakespeare offers this lightweight, low profile antenna specially designed for masttops. The antenna gets you on the air with 3dB gain and a stainless steel whip.

- Sealed, tin-plated copper wire coil
- Stainless steel whip
- SO-239 connector
- Mount: Stainless steel "L" bracket supplied or use optional 4716 or 4717

**Max. Power Input:** 50 watts

**SWR Nominally:** 1.2:1 at 146 MHz

**Bandwidth:** 8 MHz within 2.0:1 VSWR

**Frequency:** 2-Meter HAM Band

**DC Grounding:** No



**NEW**

## 5250-HAM

**37" 2-Meter HAM Band 3dB Gain**

### Low Profile End-Fed 1/2 Wave

Shakespeare brings HAM radio to marine antennas for the 144-148 MHz, 2-meter band. Its chrome plated brass canister minimizes the de-tuning associated with plastic canisters. The antenna's 3 dB gain will bring joy to your radio and get your call sign on the airwaves.

- Chrome-plated brass canister with standard 1"-14 thread for mounting
- Sealed, tin-plated copper wire coil
- Stainless steel whip (36")
- Requires mount with center hole for passage of the supplied 15' RG-58 cable; PL-259 connector included
- Suggested mount: Style 4187, 5187, 4188-S or 4190 Ratchet Mounts
- One section
- Low-profile design

**Max. Power Input:** 50 watts

**SWR:** Nominally 1.2:1 @ 146 MHz

**Bandwidth:** 8 MHz within 2.0:1 VSWR

**Frequency:** 2-Meter HAM Band

**DC Grounding:** No



## 5253-ORB

**36" 3dB Gain**

### Low Profile End-Fed 1/2-Wave

Especially designed for the Orbcmm system's requirements, this compact workhorse is perfect for any vessel where small size is important. Stainless steel whip. The chrome plated brass canister minimizes the de-tuning associated with antennas that have plastic canisters.

- Optimized for the Orbcmm 137-150 MHz band
- Sealed, tin-plated copper wire coil
- Stainless steel whip (36")
- Requires mount with center hole for passage of the supplied 15' RG-58 cable; PL-259 connector included
- Suggested mount: Style 4187, 5187, 4188-S or 4190 Ratchet Mounts
- One section
- Low-profile design

*Classic*

SHAKESPEARE®

**2 YEAR  
WARRANTY**

Classic Specialty

## Classic Extension Masts

### 4008-4

#### 4' Heavy-Duty Extension Mast

Lightweight, 1½" diameter extension mast of structurally strong fiberglass. Use with Style 409-R or 410-R Mounting Kit.

- Chrome-plated brass ferrules, upper male, lower female
- Standard 1"-14 thread
- Actual length: 50"



### 4008

#### 8' Heavy-Duty Extension Mast

Same as Style 4008-4, but longer.

- Actual length: 91"



### 4008-13

#### 13' Heavy-Duty Extension Mast

Same as Style 4008, but longer.

- Actual length: 162"



### 4364

#### 1' Extension Mast

One inch diameter extension mast for light to moderate-duty applications. White molded polycarbonate male upper and female lower 1"-14 threads.



### 4700 SERIES

#### Stainless Steel Extension Mast

Heavy-duty stainless steel extension masts with standard 1"-14 thread male and female fittings. Available in three lengths:

- **4700:** 6" long
- **4700-1:** 1' long
- **4700-2:** 2' long



### 499

#### 8' Moderate-Duty Extension Mast

A 1" diameter extension mast for moderate duty applications. An upper support bracket is required. Use with Style 410-R Mounting Kit.

- White, molded polycarbonate fittings
- Standard 1"-14 thread, upper male, lower female
- Actual length: 98"



### 498

#### 4' Moderate-Duty Extension Mast

Same as Style 499, but shorter.

- Actual length: 50"



### 409-R & 410-R

#### Mounting Kits

See page 49 for details.



SHAKESPEARE®

**2 YEAR WARRANTY**

# Shakespeare® Radio Accessories

## CS-2

### Two-Way Coaxial Switch

If you have two radios and one antenna, or two antennas for one radio, this switch lets you choose which one is connected.



## ART-3

### Antenna Radio Tester

No need to call for a radio check when you have this compact, easy to use, unit on-board. Unlike other meters in its class, the ART-3 tests receiver function as well as output power and VSWR (antenna efficiency). It is powered by an internal battery or can be connected to ship's 12 VDC with the supplied power cable. Battery level can be checked at the flip of a switch. No serious boater should be without an ART-3.

**Frequency Range:** 155-158 MHz

**RF Power Scale:** 0 to 30 watts

**Impedance:** 50 ohms

**Accuracy:** ±10%

**Connectors:** SO-239

**Construction:** Die-cast aluminum

**Signal Generator:** 3KHz Deviation

**Tone:** 1000 KHz

**RF Level:** -115 dBm (approx.)

Requires Style 4079 Cable



## 4079

### 1-Meter Cable (not pictured)

Use the Style 4079 1-meter cable to connect the ART-2, ART-3, AS-2, and CS-2 to your VHF radio. It has PL-259 connectors on each end, already installed.

## AS-2

### Automatic Switch

This automatic switch toggles two radios to one antenna. When you key the microphone on one of the radios, it switches the antenna to it...automatically. The radio stays locked onto the antenna until the automatic switch detects a transmit from the other radio. Easy!

**Frequency Range:** Up to 600 MHz

**Power Rating:** 30W

**Impedance:** 50 ohms

**Connections:** SO-239 type

**Construction:** Cast aluminum case

**VSWR:** Below 1.2:1

**Power Supply:** 12 vDC @ 200 ma

**Sensing/Switching Time:** Less than 100 ms

**Insertion Loss:** Less than 1.2dB

**Isolation:** Better than 50dB

*Does not allow simultaneous reception.*

*Only one radio at a time is connected to the antenna.*



## Speakers To Complement Your Radio Installation

Most VHF radios provide external audio outputs. These accessory speakers are color and performance matched to make installation a breeze.

## HS-40

### PA/Hailer Horn Speaker

**NEW**

Gets your point across with up to 40 watts power handling capacity and also supports loudhailer listen-back function. It is made of high impact white plastic and includes a tilt mount bracket. Measures 7" wide x 13" deep.

- 8-ohms, 40 Watts @ 400 Hz
- Frequency Response: 250 Hz to 8 KHz
- Operating temperature range: -40 to +176 degrees F (-40 to +80 C)



## HS-5

### Horn Speaker

Shakespeare's external Hailer Speaker is a 5", white plastic horn speaker of 4 ohms, handling 15 watts (RMS) input.



## ES-2

### External Speaker

A 2½" external speaker with Mylar® cone in a compact white housing to withstand the rigors of the marine environment. A 4-ohm speaker for input power up to 5 watts (RMS). Comes with a ratchet-action mounting bracket, hardware mounting kit and 6' of cable with "mini phone" plug installed.



## ES-4

### External Speaker

A 4", 4-ohm, deluxe speaker with Mylar® cone and white plastic cabinet for protection against moisture. Maximum input power is 8 watts (RMS). Comes with swivel mounting bracket, hardware mounting kit and 6' of cable with "mini phone" plug installed.



## ES-4P

### External Speaker

All the features of the ES-4 plus a built-in amplifier. The advanced ES-4P has volume control, tone control and a switchable attenuator that helps prevent accidental over-driving. It ramps the audio level to 94 dBA, while improving tone and clarity. It has a 3.5mm plug for audio input, and runs on 12vDC.





4187



4187-HD



5187

## Cable Slot



Special Cable Slot that eliminates removal of most factory installed connectors!



4188-S



4188-SL



4190



4186



407



408-R



81-S



495



4721

### 4186 Ratchet Mount Solid Nylon

Four-way ratchet design with handle, for deck or side mounting. Not for use with antennas longer than 8' in self-supporting mode. This nullifies all warranties. Standard 1"-14 thread.

- Bolt holes:  $\frac{1}{2}$ " dia., 3"x1 $\frac{1}{2}$ " on center

### 4187 Ratchet Mount Stainless Steel

Versatile four-way ratchet design for deck or side mounting. Quick-action handle makes operation easy. Standard 1"-14 thread.

- Slot for cable feed-through
- Bolt holes:  $\frac{1}{2}$ " dia., 3"x1 $\frac{1}{2}$ " on center

### 4187-HD Extra Heavy-Duty Ratchet Mount Stainless Steel

Same as Style 4187 with extra strength and rigidity. Use wherever its extra heavy-duty construction is needed. Standard 1"-14 thread.

- Slot for cable feed-through
- Bolt holes:  $\frac{1}{2}$ " dia., 3"x1 $\frac{1}{2}$ " on center

### 5187 Ratchet Mount Stainless Steel

Sleek simple lines come from a nutless, boltless, design. Standard 1"-14 threads and a special cable slot that eliminates removal of most factory installed connectors.

- Five degree teeth for finer adjustments than standard ratchet mounts
- Slot for cable feed-through
- Bolt holes:  $\frac{1}{2}$ " dia., 3"x1 $\frac{1}{2}$ " on center
- U.S. Patent No. 7,525,507

### 4188-S Ratchet Rail Mount Stainless Steel

Ratchet action, fast release design for quick and easy laydown. Mounts easily on  $\frac{3}{8}$ " and 1" vertical or horizontal rails. Standard 1"-14 thread.

- Slot for cable feed-through
- Handles antennas up to 8'

### 4188-SL Ratchet Rail Mount Stainless Steel

Same as Style 4188-S, but for 1" to 1 $\frac{1}{2}$ " rails.

### 4190 Rail Mount Stainless Steel

Ratchet action, designed for quick and easy installation on  $\frac{3}{8}$ " and 1" vertical or horizontal rails. Standard 1"-14 thread.

- Slot for cable feed-through
- Handles antennas up to 8'

### 407 Heavy-Duty Swivel Mount Chrome-plated Brass

Versatile four-way action. Fits almost any mounting location and permits antenna laydown in desired direction. For deck or side mounting when used with a stand-off bracket. Standard 1"-14 thread.

- Bolt holes:  $\frac{1}{2}$ " dia., 3"x1 $\frac{1}{2}$ " on center

### 412 Hardware Kit

Stainless steel kit for Shakespeare mounts that includes (4) 1 $\frac{1}{8}$ " bolts, (4) nuts, (4) flat washers and (4) lock washers. (picture not shown)

### 408-R Upper Bracket White Molded Plastic

Insulated stand-off bracket of white molded plastic. Corrosion resistant. Easy-open for quick laydown. For use with Styles 81-S and 407 Swivel Mounts and antennas of 1", 1 $\frac{1}{8}$ " and 1 $\frac{1}{2}$ " diameter.

### 81-S Swivel Mount Stainless Steel

For deck or side mounting when used with an upper support bracket. Base is dual jointed, free-pivoting, and allows easy lowering of antenna for clearing overhead obstructions. Standard 1"-14 thread.

### 495-B Lift-n-Lay Mount White Polycarbonate

This innovative mount enables your antenna to Lift-n-Lay with positive snap action. Leveling plate provided for mounting to a sloping deck. Standard 1"-14 thread. Insert included to accommodate  $\frac{3}{8}$ "-24 thread antennas.

- Has  $\frac{3}{8}$ "-24 thread brass insert
- Handles antennas up to 8'

### 4721 Economy Ratchet Rail Mount Nylon

Attaches to  $\frac{3}{8}$ " and 1" vertical, horizontal, and angled rails. Lever action makes lowering antenna quick and easy. Has hole for passing coaxial cable through. Standard 1"-14 thread.

### 4715 Mounting Clamps

Attaches an antenna of 1" to 2" diameter to a mast of 1" to 2" in diameter. Two clamps per set.

- Pliable rubber pad cushions the antenna
- Sturdy construction

### 4716 Stand-Off Mast Mount Corrosion Resistant Black Plastic

A durable, angled mast mount and stand-off bracket in one. Fits all Shakespeare low-profile, base-loaded antennas. Mounting screws not included.

- Simple, lightweight, and durable
- Attaches easily to any flat, vertical surface
- Dimensions: 5" high x 1 $\frac{1}{2}$ " wide x  $\frac{3}{8}$ " thick
- Stand-off distance: 8"

### 4717 Mast-Top Mount Corrosion Resistant Black Plastic

This simple, flat bracket attaches to the top of a mast for mounting any of Shakespeare's low profile, base-loaded antennas. Durable, black plastic. Mounting screws not included.

- Simple, lightweight, and durable
- Dimensions:  $\frac{3}{8}$ " high x 1 $\frac{1}{2}$ " wide x 8" long



4715



4716



4717



409-R



410-R



4191



4710



4711



4365



4722



4705



4712



418



4006



4184



4720



414

### 409-R Mounting Kit

Combines the versatile Style 407 heavy-duty Swivel Mount with the Shakespeare Style 408-R Insulated Stand-off Bracket. The bracket features an insert to accept 1", 1½", or 1¾" diameter antennas or extension masts.

- Swivel mount is chrome-plated brass construction

### 410-R Mounting Kit

Combines the Style 81-S Swivel Mount with the Shakespeare Style 408-R molded upper bracket. The bracket features an insert to accept 1", 1½", or 1¾" diameter antennas or extension masts.

- Swivel mount is stainless steel construction

### 4191 Stand-Off Extension Stainless Steel

Use with 408-R, 409-R or 410-R to clear overhang or other obstacles.

- Adjustable length: 3" to 8"

### 4710 Flange Mount Stainless Steel

Heavy-duty, low profile, 1" high mount with standard 1"-14 threads. For GPS, Marine TV, and shorter antennas.

### 4711 Flange Mount Nylon

Same as style 4710, but made of nylon for moderate-duty applications.

### 4365 Straight Mount

4" high, 1"-14 thread stainless steel mount. Perfect for radar arches.

### 4722 Rail Mount

This sturdy plastic mount attaches to ¾" and 1" horizontal rails and has a side slot in the 1"-14 thread section for antennas with coax exiting the bottom center of their ferrule.

### 4705 1"-14 Thread Pipe Adapter

Slip this adapter onto a 1" diameter pipe for a standard 1" thread male fitting. Attaches easily with set screws.

### 4712 Antenna Lay-down Hook Stainless Steel

Heavy-duty "J" hook to support antennas up to 1½" diameter when in the lay-down position.

### 418 Round Shim Kit

Set of two durable yet flexible rubber shims for Shakespeare styles 4710, 4711 and 4365 round flange mounts.

### 4006 Double Female Ferrule Stainless Steel

¾" ferrule with 1"-14 female threads at both ends.

### 4184 Cable Outlet

Use this attractive, chromed brass cable outlet to neatly pass cables through bulkheads. Its rubber internal grommet grips the cable and keeps water out. For RG-8/AU, RG-8/X, RG-58, RG-59, RG-213.

### 4720 Economy Rail Mount Stainless Steel

Mount comes with nylon adapters to fit ¾", 1" and 1½" vertical or horizontal, square or round rails. For use with standard 1"-14 thread antennas. Can also be mounted to flat surfaces.

### 414 Heavy-Duty Rubber Shim Kit for Ratchet Mounts

Kit of four shims, two each with front/back and side/side slope. Each shim adds a half-notch (5°) tilt. Stack them for extra height or for compound angles. For all Shakespeare ratchet type deck mounts.

SHAKESPEARE®

2 YEAR  
WARRANTY

Unless specified, mounting hardware not included.  
For connectors and adapters, see pages 50-51.

Shakespeare offers an extensive line of marine grade connectors and adapters for antenna installations. Our connectors are gold-plated brass to withstand the elements better and to minimize traditional connector-borne signal loss.

## Gold-Plated Brass Adapters

**PL-258-G**  
Barrel connector for PL-259-ended cables



**RA-259-239-G**  
Right-angle PL-259 to SO-239 adapter



**TNCF-NF-G**  
TNC Female to N Female adapter



**PL-258-L-G**  
Bulkhead mountable barrel connector for PL-259-ended cables



**TNCM-NF-G**  
TNC Male to N Female adapter



**TNC-BC-G**  
TNC barrel connector



**AD-239-G**  
BNC to SO-239 adapter  
**Limited Availability**



Gold connectors and adapters are gold-plated brass!

## Gold-Plated Brass Connectors

**PL-259-G**  
PL-259 connector for RG-8/AU & RG-213 coax



**TNCM-58-G**  
TNC type male connector for RG-58U coax



**TV-1060**  
Screw-on F type connector for RG-59 cable  
Two per pack



**PL-259-58-G**  
PL-259 connector with UG175 adapter & DooDad® for RG-58



**TNCM-8-G**  
TNC type male connector for RG-8/X coax



**TV-1070**  
Screw-on F type connector for RG-6 cable  
Two per pack



**PL-259-8X-G**  
PL259 connector with UG176 adapter & DooDad® for RG-8/X



**NM-8X-G**  
Male N connector for RG-8/X cable



**FS-8101-G**  
"F" type barrel connector



**NM-8-213-G**  
Male N connector for RG-8U and RG-213 cable



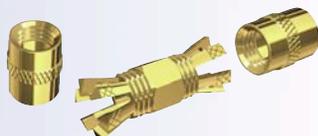
## Shakespeare Gold-Plated Centerpin® Revolutionizes the PL-259 and PL-258

The perfect solution to the troublesome task of installing a PL-259 connector or splicing RG-58 A/U or RG-8/X coaxial cables. Shakespeare's revolutionary Centerpin connectors are solderless, fret-less, and botchless. They go on without a hitch, without soldering skills.

No measuring, no critical stripping of coax insulation, no fussing with the coax's braid, and no "tinning"

### Centerpin PL-258-CP-G Series

The easy way to splice coax! The Centerpin PL-258-CP-G connector puts Centerpin convenience to work on the double-trouble task of splicing RG-58 A/U and RG-8/X and coaxial cable.



### Centerpin PL-259-CP-G Series

For RG-58 A/U and RG-8/X coaxial cable. Installing a PL-259 connector hasn't been simple. Now it is.



Centerpin is a registered trademark of Centerpin Technology, Inc.

## Nickel Plated Brass Connectors and Adapters

### TNF-MM Connector Adapter

This handy female TNC to male Mini UHF adapter connects most Motorola cell phones to a ship's larger cellular antenna. Easy, convenient and fast.



### CDP-2 Dash Mount Connector Kit For CPA Cables

Provides quick-disconnect of Shakespeare CPA cables. Antenna coax permanently attaches to the back (TNC female). Rubber cap protects front connector (TNC male) when not in use.



### RPP-2

Two RCA Phono Plugs. These are the common connectors for audio cabling for marine stereo equipment. Often used for NMEA-0180 and NMEA-0183 connections.



**Limited Availability**

## Shakespeare Coaxial Cables

The cable that connects your antenna to your radio can make or break signal quality—literally. Shakespeare offers a range of coaxial cables tailored to the needs of marine communications that will withstand the rigors of the boating environment.

**4078-50  
RG-8X Cable**  
50' RG-8X 50-Ohm  
low loss coax, white

**4081-50  
RG-213 Cable**  
50' of RG-213 cable

**4081-100  
RG-213 Cable**  
100' of RG-213 cable

**4079  
RG-58 Cable**  
1-meter RG-58 cable  
w/PL-259 connectors  
for ART-2, CS-2, AS-2



## Shakespeare Lo-Max® Coaxial Cable

Higher frequencies, especially those of today's cell phones, which operate at very low power, greatly emphasize the importance of high quality coax. Shakespeare has developed its exclusive Lo-Max cable for dual band cellular antennas. Its extra low-loss characteristics approach the larger RG-8 A/U and RG-213 cables, but without the extra bulk and rigidity. It is also an excellent choice for VHF, CB, and most any 50 ohm coax.

**4080-30  
LO-MAX CABLE**  
30' of Shakespeare  
Lo-Max Extra Low-Loss  
Coax, white  
**Limited Availability**

**4080-50  
LO-MAX CABLE**  
50' of Shakespeare  
Lo-Max Extra Low-Loss  
Coax, white  
**Limited Availability**



# CruiseNet® Cellular Modems...

a fast, reliable way to surf the internet, check e-mail and download files while on the water.

## Internet Access for the Boating World



Whether cruising the coastline, out for a day sail, or bringing in the last catch of the day, *CruiseNet* keeps you connected with family, friends, business associates, coworkers, and the rest of the world.

*CruiseNet* is your own secure, high-speed, wireless network. You can send e-mails, surf the net, check on-line weather, and more... right from your boat. *CruiseNet* gives you high-speed uploads and downloads so you can send photos, music, and other files quickly and easily.

- Send e-mail to friends
- Surf the net for on-line weather, news, and services
- Access remote surveillance and alarm systems<sup>1</sup>
- Monitor your boat while you're away<sup>1</sup>

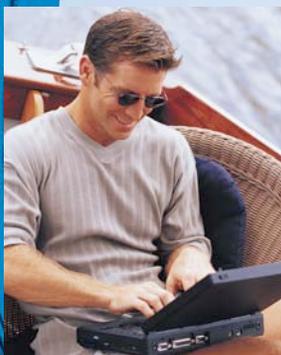
## Simple to Use

*CruiseNet* works just like the broadband connection at your home or office. Once installed, just connect your laptop and you are up and running: automatically connected to the high-speed cellular network. With the wireless Wi-Fi connection option, you can even take your laptop dockside and maintain your high-speed connection.



## Fast and Dependable

*CruiseNet* is fast! It's many times faster than dial-up, and a higher Quality of Service than PCMCIA card-based systems that lack the power to maintain adequate connections, particularly in remote locations. *CruiseNet* provides the power, speed, and dependability in an integrated solution.



## Security for Peace of Mind

Connect *CruiseNet* to your on-board monitoring systems<sup>1</sup> like bilge pumps, electrical and contact switches, surveillance cameras, so you can monitor them while you're away. *CruiseNet* can even send an SMS alert message to your e-mail or cell phone. Plus, *CruiseNet's* built-in firewall protects you from hackers, and eavesdroppers. *CruiseNet* keeps you connected while you're on the move and gives you peace of mind when you're away.



## No one like Shakespeare... Nothing like CruiseNet!

Built to withstand the rigors of the marine environment, Shakespeare has integrated "best-in-class" cellular modems/routers with leading edge cellular network technology...when paired with Shakespeare antennas you are assured superior range and performance.

But it doesn't stop there, should you ever need it, Shakespeare's unparalleled 24/7 *CruiseNet* support line is always available with a real, live, courtespecialist to help solve the problem.

## Broadband Access / Low Fee\*

With many types of mobile Internet access you must pay by the minute or by the amount of data you send. Not so with the *CruiseNet*. A low monthly fee provides you with 5GB of always-on, high-speed access to the Internet, e-mail and instant messaging.

Data Airtime Services	5GB Price/Month
Sprint	\$59.95 (2yr contract)*
Verizon	\$59.95 (2yr contract)*
AT&T	\$59.95 (2yr contract)*

\*Some restrictions apply. Prices and Terms are subject to change. Please call support for the latest carrier promotions.

### What You Can Typically Do with 5GB of Data/ Month\*\*

	Approximate File Size	Approximate Quantity
Email: Text without attachments	5KB	> 1 million
Digital Photos: Low Resolution	500KB	> 10,000
Music: Typical 3-minute song	4MB	>1,200

\*\*Actual file size and quantities will vary.

## Quick and Easy Installation

*CruiseNet* can be installed easily in any boat by your marine dealer, or you can even install it yourself. Just install the cellular modem and Wi-Fi units (if equipped), mount the antennas, connect to the cellular service, and you're on your way.

**NEW**



**CN-1200**

Model	Network	System Type
CN-1200-A	AT&T, T-Mobile, Rogers	HSUPA
CN-1200-S	Sprint	EV-DO Rev. A
CN-1200-V	Verizon	EV-DO Rev. A

- Specifications:**
- Dimensions 4.5"L x 5.3"W x 1.2"H; Weight 10 oz.
  - Wireless WAN: EV-DO Rev. A with Fallback to EV-DO Rev. 0 and CDMA 1x HSUPA with Fallback to UMTS, EDGE and GPRS
  - Host Interfaces:
    - Ethernet: Single-Port RJ45; 10/100 Mbps - Auto polarity sensing
    - Serial: RS232, DB9
  - Discrete I/O-Contact Closure (Input) & Relay Driver (Output)
  - Operating Temperature Range: -20C to +70C;
  - Humidity: 90% non-condensing
  - Input Power: 9-18VDC +/-10%

- CN-1200 Series includes:**
- Installation / Activation Instructions
  - Quick-start Guide and User Manual
  - 120 volt AC Power Adapter
  - 12 volt DC Wire Harness
  - SMA-TNC Adapters
  - Two detachable Flex Antennas for EV-DO
  - 7 foot Ethernet Cable
  - Single Ethernet Port Router and DB-9 Serial Port
  - I/O input for Alarm and Control Applications

**Accessories and Replacement Parts:**

Model	Description
EGWR-1	Wireless-g 4-port WiFi Router (Edimax BR-6204WG)
EGWR-2	Wireless Land Access Point Router
NGWR-2	802.11 Pro-Series Wi-Fi Router (Netgear FWG114P)
CNPA-1	120 volt AC Power Adapter for CN-1200
WRPA-1	120 volt AC Power Adapter for Netgear Wi-Fi Router
CNDCH-1	12 volt DC wire harness for CN-1200
CNDCH-3	12 volt DC wire harness for Netgear and Edimax Wi-Fi Routers (specify 6 or 8 pin)
CNFA-1	Flex Antenna (removable) - Black
CNDOC-1	Documentation Package



PC not included

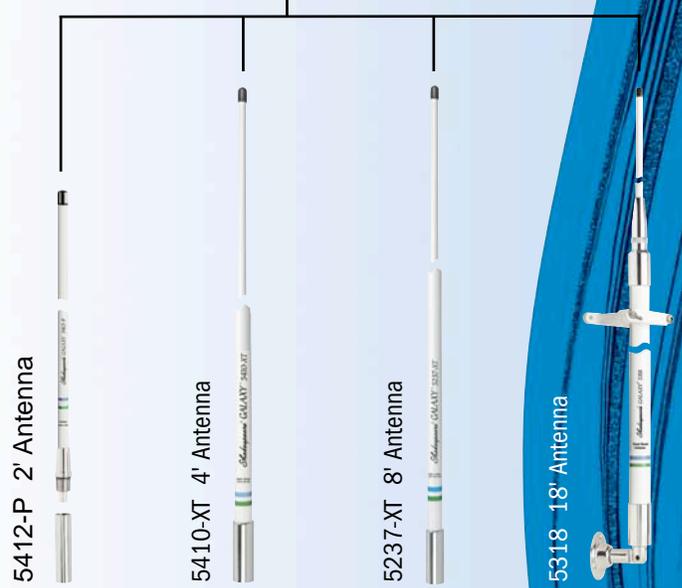
**Other Connectable Devices**  
 Video Cameras  
 Contact Switches  
 Other Onboard Systems



Wi-Fi Router (Optional)



CruiseNet Cellular Router



5412-P 2' Antenna

5410-XT 4' Antenna

5237-XT 8' Antenna

5318 18' Antenna

Tip: For extended range, select from the Shakespeare Galaxy® Series of Dual Band Cellular antennas, ranging from 2' to 18' in length.



**CruiseNet**

# Reliability

## A Marine Radio Is Only As Good As Its Antenna

Knowledgeable boaters realize that even the most expensive radio will perform poorly with a second-rate antenna. Such antennas save money up front, but jeopardize the welfare of those aboard. That's why they prefer the quality, performance, and reliability of Shakespeare marine antennas. From the largest seagoing ships to the smallest bass boats, Shakespeare antennas have held up for years under the worst marine conditions, always performing to their maximum design capabilities.

### Reliability Begins with Quality Construction

Shakespeare fiberglass antennas are built with precision, beginning with hand-soldered connections, brass and copper elements, strong mechanical joints, and superior electronics. The radiator and electrical elements are then encased in an exclusive Shakespeare fiberglass radome.

### Tips On Choosing the Proper Antenna

Since there are many factors that influence the selection of a proper antenna for a specific application, we encourage consultation with a local dealer whenever possible.

When this is not possible, the following tips should be considered before making a final decision.

#### Antenna Length

Height is paramount in getting the greatest range, and therefore choosing an antenna that can be placed as high as possible on the boat is important.

#### Sailboats:

As a general rule, sailboats have a 3' - 5' antenna mounted on the masthead. Some racing enthusiasts opt for an 8' antenna mounted on the stern in the event demasting should occur. Either is acceptable. A decision should be made on personal preference.

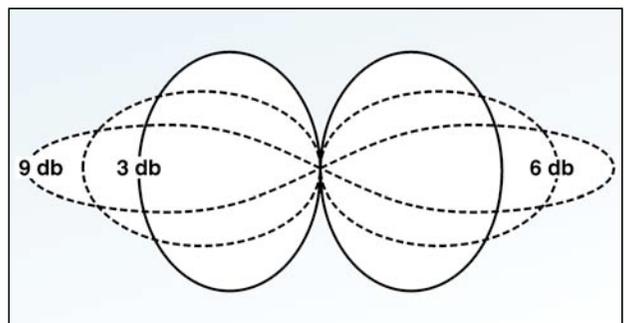
#### Powerboats:

Most power boats from 16' to 25' in length use a standard 8' antenna, while bigger vessels have the option of larger antennas with more gain. Caution: be sure to allow enough lay down room for clearing low bridges or other limitations.

Whichever choice is made, a sturdy mounting arrangement is necessary to avoid damage to both boat and antenna.

#### Gain

This is a rating stated in decibels (dB). Generally, the higher the gain, the greater the communicating range. However, keep in mind that the higher the gain, the more compressed the beam width becomes (see illustration). A narrow beam can cause fading in rolling seas. Small, lightweight boats, which roll excessively in heavy seas, normally do not use a gain rating above 6dB. The more stable the platform of a vessel, the higher the gain that can effectively be used.



Typical Radiation Patterns

## Mounts

Be sure to pick the mount style that will best support the antenna on a particular boat. When using a two-piece antenna system greater than 10' in length, an upper support clamp is necessary.

For antennas of 14' to 18', the upper clamp should be 3' to 5' from the bottom. For antennas of 18' to 23', the upper clamp should be 4' to 8' from the bottom. Positioning the upper clamp too high or too low can significantly increase the potential for structural failure.

## Cable

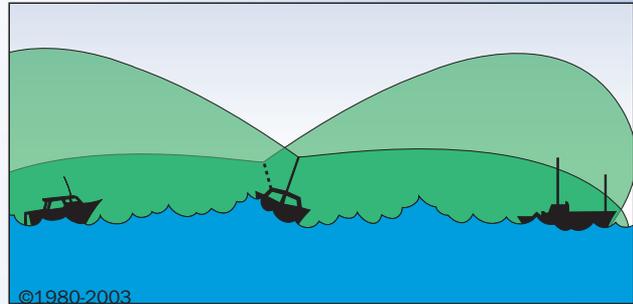
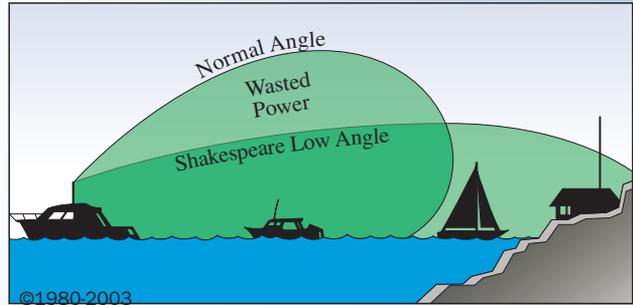
RG-58 cable is sufficient for cable runs up to 20'. For runs over 20', low-loss RG-8/X, RG-8A/U, or RG-213, which are larger and better, are preferable. Shakespeare uses low-loss, UV stable RG-8/X throughout its Galaxy antenna line.

Today's enhanced cellular services, which operate in the 1800-1900 MHz range, place even more importance on using a high quality coax. That's why Shakespeare developed its exclusive coax cables for dual band cellular antennas.

For optimum performance from your VHF, HF/SSB and cellular communications systems, the cable should be kept as short as possible. Caution: the cable supplied with some antennas may not be cut or altered. Be sure to check the instruction sheet before attempting to shorten the cable.

## Low Angle Radiation

Shakespeare pioneered low angle techniques in marine antennas in the 1960s and built them into many models. Low angle minimizes fading while maximizing range even during excessive boat roll in turbulent seas. A normal angle shortens the range and wastes power.



Shakespeare combines a normal beam width with a unique low angle of radiation to minimize signal fading in rough or rolling seas.

**Shakespeare**<sup>®</sup>

# Performance

## A Final Word

The greatest tip to keep in mind is that no matter how much you pay for your radio, its performance will be directly proportional to the quality and performance capabilities of the antenna. Don't compromise. Insist on genuine Shakespeare.



STYLE NUMBER	LENGTH	FREQUENCY RANGE	DB GAIN	MAX INPUT	VSWR	BANDWIDTH	DC GROUND	PAGE
<b>Galaxy XP Silver Series</b>								
5225-XP	8'	156-164 MHz	6	150	Nominally 1.5:1 at 156.8 MHz	6 MHz within 2.0:1 VSWR	Yes	4
5400-XP	4'	156-164 MHz	3	150	Nominally 1.5:1 at 156.8 MHz	5 MHz within 2.0:1 VSWR	No	4
<b>Galaxy Eliminator Series</b>								
5225-FLT	8'	156-164 MHz	6	30	Nominally 1.5:1 at 156.8 MHz	3 MHz within 2.0:1 VSWR	Yes, but reads "open"	7
5226-FLT	8'	156-164 MHz	6	30	Nominally 1.5:1 at 156.8 MHz	3 MHz within 2.0:1 VSWR	Yes, but reads "open"	7
5018-FLT	17'6"	156-164 MHz	9	30	Nominally 1.5:1 at 156.8 MHz	3 MHz within 2.0:1 VSWR	Yes, but reads "open"	7
<b>Galaxy VHF Antennas</b>								
5400-XT	4'	156-164 MHz	3	50	Less than 1.5:1 at 156.8 MHz	5 MHz within 2.0:1 VSWR	No	8
5401-XT	4'	156-164 MHz	3	50	Less than 1.5:1 at 156.8 MHz	5 MHz within 2.0:1 VSWR	No	9
5400-XTM	4'	156-164 MHz	3	50	Less than 1.5:1 at 156.8 MHz	5 MHz within 2.0:1 VSWR	No	9
5396-AIS	4'	156-164 MHz	3	50	Less than 1.5:1 at 158 MHz	5 MHz within 2.0:1 VSWR	Yes	9
5415	2'	156-164 MHz	3	50	Less than 1.5:1 at 156.8 MHz	6 MHz within 2.0:1 VSWR	No	9
5225-XT	8'	156-164 MHz	6	100	Nominally 1.5:1 at 156.8 MHz	6 MHz within 2.0:1 VSWR	Yes	10
5325-XT	8'	156-164 MHz	6	100	Nominally 1.5:1 at 156.8 MHz	6 MHz within 2.0:1 VSWR	Yes	10
5226-XT	8'	156-164 MHz	6	100	Nominally 1.5:1 at 156.8 MHz	6 MHz within 2.0:1 VSWR	Yes	10
5399	9'6"	156-164 MHz	6	100	Nominally 1.5:1 at 156.8 MHz	3 MHz within 2.0:1 VSWR	Yes	10
5230	14'	156-164 MHz	8	200	Nominally 1.5:1 at 156.8 MHz	3 MHz within 2.0:1 VSWR	Yes	11
5018	17'6"	156-164 MHz	9	150	Nominally 1.5:1 at 156.8 MHz	3 MHz within 2.0:1 VSWR	No	11
HS-2774-1	6'5"	136-174 MHz	See Pg 11	125	Less than 2:1 across the band	38 MHz within 2.0:1 VSWR	Yes	11
5309-R	23'	156-164 MHz	9	150	Nominally 1.5:1 at 156.8 MHz	3 MHz within 2.0:1 VSWR	No	11
<b>Galaxy HF/SSB Antennas</b>								
5390	17'6"	2-30 MHz w/tuner	—	1kw	Frequency: 2-30 MHz with tuner	Resonant Frequency: 10.8 MHz	—	12
5310-R	23'	2-30 MHz w/tuner	—	1kw	Frequency: 2-30 MHz with tuner	Resonant Frequency: 10.8 MHz	—	12
<b>Galaxy VHF Sailboat Antennas</b>								
5440	3'	156-164 MHz	3	50	Nominally 1.5:1 at 156.8 MHz	6 MHz within 2.0:1 VSWR	Yes	13
5445	3'	156-164 MHz	3	50	Nominally 1.5:1 at 156.8 MHz	6 MHz within 2.0:1 VSWR	Yes	13
<b>Galaxy Specialty Antennas</b>								
5224	4'	Loran/DGPS Bands	—	—	—	—	—	14
5220	8'	Loran/DGPS Bands	—	—	—	—	—	14
5223-XT	8'	27-28 MHz	Unity	25	1.5:1 or less at Channel 19	440 kHz within 2.0:1 VSWR	Yes	15
5248	2'	2.40 - 2.48 GHz	8	25	—	80 MHz within 2.0:1 VSWR	Yes	15
<b>Galaxy Cellular Antennas</b>								
5410-XT	4'	800-900 MHz 1800-1900 MHz	3	50	Less than 1.5:1 at 852.65 MHz Less than 1.5:1 at 1918.7 MHz;	96 MHz within 2.0:1 VSWR 140 MHz within 2.0:1 VSWR	No	16
5411-XT	4'	800-900 MHz 1800-1900 MHz	3	50	Less than 1.5:1 at 852.65 MHz Less than 1.5:1 at 1918.7 MHz	96 MHz within 2.0:1 VSWR 140 MHz within 2.0:1 VSWR	No	16
5410-XTM	4'	800-900 MHz 1800-1900 MHz	3	50	Less than 1.5:1 at 852.65 MHz Less than 1.5:1 at 1918.7 MHz	96 MHz within 2.0:1 VSWR 140 MHz within 2.0:1 VSWR	No	16
5412-S	2'	800-900 MHz 1800-1900 MHz	3	50	Less than 1.5:1 at 852.65 MHz Less than 1.5:1 at 1918.7 MHz	96 MHz within 2.0:1 VSWR 140 MHz within 2.0:1 VSWR	No	16
5412-P	2'	800-900 MHz 1800-1900 MHz	3	50	Less than 1.5:1 at 852.65 MHz Less than 1.5:1 at 1918.7 MHz	96 MHz within 2.0:1 VSWR 140 MHz within 2.0:1 VSWR	No	16
5237-XT	8'	800-900 MHz 1800-1900 MHz	3	50	Less than 1.5:1 at 852.65 MHz Less than 1.5:1 at 1918.7 MHz	96 MHz within 2.0:1 VSWR 140 MHz within 2.0:1 VSWR	No	17
5238-XT	8'	800-900 MHz 1800-1900 MHz	3	50	Less than 1.5:1 at 852.65 MHz Less than 1.5:1 at 1918.7 MHz;	96 MHz within 2.0:1 VSWR 140 MHz within 2.0:1 VSWR	No	17
5318	17'6"	800-900 MHz 1800-1900 MHz	3	50	Less than 1.5:1 at 852.65 MHz Less than 1.5:1 at 1918.7 MHz	96 MHz within 2.0:1 VSWR 140 MHz within 2.0:1 VSWR	No	17
<b>Galaxy Satellite Radio Antennas</b>								
SRA-25	2.375" x 2"	2.32 - 2.345 GHz	36.5	—	—	—	—	20
SRA-40	3.5" dia	2.32 - 2.345 GHz	36.5	—	—	—	—	20
<b>Galaxy AM/FM Antennas</b>								
5235-XT	8'	AM: 530 -1640 KHz FM: 88 - 108 MHz	—	—	—	—	—	22
5420-XT	4'	AM: 530 -1640 KHz FM: 88 - 108 MHz	—	—	—	—	—	22
5421-XT	4'	AM: 530 -1640 KHz FM: 88 - 108 MHz	—	—	—	—	—	22
<b>Centennial Antenna Series</b>								
5101	8'	VHF Marine Band	6	50	Nominally 1.5:1 at 156.8 MHz	5 MHz within 2.0:1 SWR	Yes, but reads open	25
5102	8'	VHF Marine Band	6	50	Nominally 1.5:1 at 156.8 MHz	5 MHz within 2.0:1 SWR	No	25
5120	8'	AM-FM	—	—	—	—	—	25
NEW 5104	4	VHF Marine Band	3	50	Nominally 1.5:1 at 156.8 MHz	5 MHz within 2.0:1 SWR	Yes, but reads open	25

STYLE NUMBER	LENGTH	FREQUENCY RANGE	DB GAIN	MAX INPUT	VSWR	BANDWIDTH	DC GROUND	PAGE
<b>Classic Stowable VHF Antennas</b>								
5912	7"	VHF Marine Band	Unity	25	**	—	No	26
5911	10"	VHF Marine Band	Unity	25	**	—	Yes	26
5910	16"	VHF Marine Band	Unity	25	**	—	No	26
5218	19"	VHF Marine Band	Unity	25	Nominally 1.5:1 at 156.8 MHz	7 MHz within 2.0:1 SWR	No	26
<b>Classic VHF Marine Antennas</b>								
5250	36"	VHF Marine Band	3	50	Nominally 1.5:1 at 156.8 MHz	7 MHz within 2.0:1 SWR	No	27
5250-AIS	36"	VHF Marine Band	3	50	Nominally 1.5:1 at 162 MHz	7 MHz within 2.0:1 SWR	No	27
5241-R	36"	VHF Marine Band	3	50	Nominally 1.5:1 at 156.8 MHz	7 MHz within 2.0:1 SWR	No	27
5240-R	36"	VHF Marine Band	3	50	Nominally 1.5:1 at 156.8 MHz	7 MHz within 2.0:1 SWR	No	27
5242-A	36"	VHF Marine Band	3	50	Nominally 1.5:1 at 156.8 MHz	7 MHz within 2.0:1 SWR	No	28
5247-A	36"	VHF Marine Band	3	50	Nominally 1.5:1 at 156.8 MHz	7 MHz within 2.0:1 SWR	No	28
420	5'	VHF Marine Band	3	50	Nominally 1.5:1 at 156.8 MHz	5 MHz within 2.0:1 SWR	No	29
396-1	5'	VHF Marine Band	3	50	Nominally 1.5:1 at 156.8 MHz	5 MHz within 2.0:1 SWR	No	29
396-1-AIS	4'	VHF Marine Band	3	50	Nominally 1.5:1 at 158 MHz	6 MHz within 2.0:1 SWR	No	29
5206-C	8'	VHF Marine Band	6	50	Nominally 1.5:1 at 156.8 MHz	3 MHz within 2.0:1 SWR	No	30
5206-N	8'	VHF Marine Band	6	50	Nominally 1.5:1 at 156.8 MHz	3 MHz within 2.0:1 SWR	No	30
5206-BLC	8'	VHF Marine Band	6	50	Nominally 1.5:1 at 156.8 MHz	3 MHz within 2.0:1 SWR	No	30
399-1	9'6"	VHF Marine Band	6	100	Nominally 1.5:1 at 156.8 MHz	5 MHz within 2.0:1 SWR	Yes	31
399-1M	9'6"	VHF Marine Band	6	100	Nominally 1.5:1 at 156.8 MHz	5 MHz within 2.0:1 SWR	Yes	31
5202	8'	VHF Marine Band	6	100	Nominally 1.5:1 at 156.8 MHz	6 MHz within 2.0:1 SWR	Yes	31
<b>Classic Commercial VHF/SSB Antennas</b>								
4018	19'	VHF Marine Band	9	50	Nominally 1.5:1 at 156.8 MHz	3 MHz within 2.0:1 SWR	No	32
4018-M	19'	VHF Marine Band	9	50	Nominally 1.5:1 at 156.8 MHz	3 MHz within 2.0:1 SWR	No	33
476	21'	VHF Marine Band	10	350	Nominally 1.5:1 at 156.8 MHz	10 MHz within 2.0:1 VSWR	Yes	34
5308-R	23'	2-30 MHz w/tuner	—	1kw	—	Resonant Frequency: 10.8 MHz	—	34
5208-R	23'	VHF Marine Band	9	50	Nominally 1.5:1 at 156.8 MHz	3 MHz within 2.0:1 SWR	No	33
5208-3	23'	VHF Marine Band	9	50	Nominally 1.5:1 at 156.8 MHz	3 MHz within 2.0:1 SWR	No	33
390	23'	2-30 MHz w/tuner	—	1kw	—	Resonant Frequency: 10.8 MHz within 2.0:1 SWR	—	34
390-1	23'	2-30 MHz w/tuner	—	1kw	—	Resonant Frequency: 10.8 MHz within 2.0:1 SWR	—	34
393	23'	2-30 MHz w/tuner	—	1kw	—	Resonant Frequency: 10.8 MHz within 2.0:1 SWR	—	35
4328	28'	2-30 MHz w/tuner	—	1kw	—	Resonant Frequency: 8.4 MHz within 2.0:1 SWR	—	35
5300	28'	2-30 MHz w/tuner	—	1kw	—	Resonant Frequency: 8.4 MHz within 2.0:1 SWR	—	35
<b>Classic VHF Sailboat Antennas</b>								
5215	36"	VHF Marine Band	3	50	Nominally 1.5:1 at 156.8 MHz	7 MHz within 2.0:1 SWR	No	36
5215-C-X	36"	VHF Marine Band	3	50	Nominally 1.5:1 at 156.8 MHz	7 MHz within 2.0:1 SWR	No	36
5215-AIS	36"	VHF Marine Band	3	50	Nominally 1.5:1 at 162 MHz	7 MHz within 2.0:1 SWR	No	36
NEW 5215-HAM	38"	2-Meter HAM Band	3	50	Nominally 1.2:1 at 146 MHz	8 MHz within 2.0:1 SWR	No	36
5216	15"	VHF Marine Band	Unity	25	Nominally 1.5:1 at 156.8 MHz	5 MHz within 2.0:1 SWR	No	36
<b>Classic CB Marine Antennas</b>								
4050-B	3'	27MHz Citizens Band	Unity	25	Nominally 2.0:1 or less at Channel 19	—	Yes	38
4051	3'	27MHz Citizens Band	Unity	25	Nominally 2.0:1 or less at Channel 19	—	Yes	38
5205	8'	27MHz Citizens Band	Unity	25	Nominally 1.5:1 or less at Channel 19	—	Yes	39
176-1	18'	27MHz Citizens Band	7.65	300	Nominally 1.5:1 or less at Channel 19	—	Yes	39
5207	8'	27MHz Citizens Band	Unity	25	Nominally 1.5:1 or less at Channel 19	—	Yes	39
<b>SeaWatch Marine TV Antennas</b>								
2030-G	21" dia.	50-890 MHz	20dB avg.	—	—	—	—	41
2020-G	14" dia.	50-890 MHz	20dB avg.	—	—	—	—	41
2025	14" dia.	50-890 MHz	0-20dB	—	—	—	—	41
<b>Classic AM/FM Stereo Antennas</b>								
5120	8'	AM/FM	—	—	—	—	No	43
4350	3'	AM/FM	—	—	—	—	No	43
4351	3'	AM/FM	—	—	—	—	No	43
<b>Classic Specialty Marine Antennas</b>								
5253-ORB	36"	ORBCOMM	3	30	Nominally 1.5:1 at 149 MHz	3 MHz within 2.0:1 SWR	No	45
173	4'	Loran C	—	—	—	—	—	44
4208	8'	Loran C	—	—	—	—	—	44
NEW 5215-HAM	36"	2-Meter HAM Band	3	50	Nominally 1.2:1 at 146 MHz	8 MHz within 2.0:1 SWR	No	45
NEW 5250-HAM	37"	2-Meter HAM Band	3	50	Nominally 1.2:1 at 146 MHz	8 MHz within 2.0:1 SWR	No	45

**Note:** Antennas with "Yes" will read short circuit when tested with an ohm meter.

\*\* Adequate across marine band. Precise SWR depends upon antenna location on boat.

— Not Applicable to this antenna type.

All Shakespeare Marine Antennas are vertically polarized.

When indicated, PL-259 connector is included but not attached to the coax for ease of installation.



*Shakespeare*<sup>®</sup>

*GALAXY*<sup>®</sup>

*Centennial*<sup>®</sup>

*Classic*

*SeaWatch*<sup>®</sup>

Electronic Products Group

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