

Delta0 Series EXPOSED FOLDED UHF DIPOLE 4-Bay Array 195-245 MHz

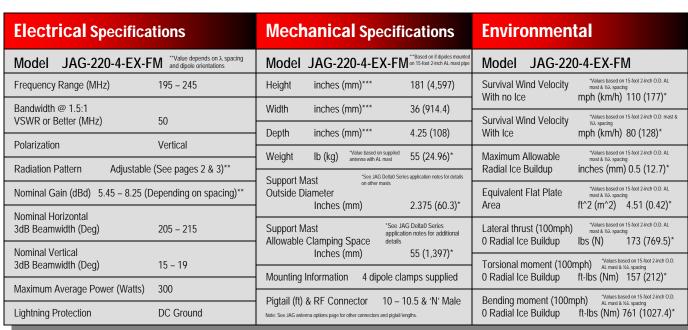


JAG-220-4-EX-FM



- Ham Radio
- Telemetry
- Land mobile networks
- Public security and safety
- Transportation networks





Sheet.

Dated: February-20-2011

Electromagnetics

RF EMI Engineering Technology 26-1750 Creek Way Burlington, Ontario L7L 7E2 Canada

Issue: 1

Email: <u>info@jagelectromagnetics.com</u> Web: <u>www.jagelectromagnetics.com</u> Tel (905)-635-7437 Fax (905)-332-8093 Made in Canada

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Specifications are subject to change without notice. As a result, all information contained in the present datasheet is subject to confirmation at time of ordering.



DeltaO Series

EXPOSED FOLDED UHF 195-245 MHz



JAG-220-4-EX-FM

Features

- 5-year factory warranty (See page 3)
- Broadband (50 MHz)
- Suitable for multi-frequency systems
- Soldered internal joints
- Small for easy transport and installation
- Field adjustable pattern and gain
- DC Grounded
- Stainless steel hardware
- Easy storage
- Operation in harsh environments
- Optional mast pipe can be supplied*
- Natural rubber plugs
- Side or tower top mountable
- Optional coatings such as black paint
- Optional downtilt versions
- Ideal for rented or temporary repeaters

- Ideal for monitoring stations
- Fits in standard Otis Elevators

Description

The JAG-220-4-EX-FM is a 4-bay version of the JAG-220-1-EX-FM, which is supplied with an aluminum mast that utilizes the JAG-Flange-System™. Its unique high efficiency wide bandwidth design allows it to cover the entire 195-245 MHz frequency span with a VSWR of 1.5:1 or better. Because of its bandwidth and very low intermodulation response, the JAG-220-4-EX-FM is useful in a wide range of functions ranging from trunking, business, public safety, government and even amateur radio plus endless other applications.

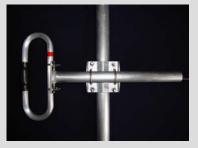
The JAG-220-4-EX-FM as well as the rest of the multi-bay arrays that are based on it feature 6061-T6 aluminum and stainless steel construction. Features such as high quality coax, soldered and welded joints as well as minimized dissimilar metal contacts ensure trouble free operation.

This series (Delta0) is based on an external harness design, which allows easy field adjustment of gain and radiation pattern. The external harness design also offers flexibility in mounting scenarios from tower legs to various pipe sizes. The absence of full-length masts, make Delta0 series easy to transport, install, and ship.

Rugged construction, lightweight, and ease of installation, makes the JAG-220-4-EX-FM ideal for leased or rented system use. Its bandwidth also makes it perfect to stock for re-use or re-sale.

JAG-220-4-EX-FM at a glance

Note: Only one of the dipoles out of the 4 bays is shown here for illustration purposes Gain values below represent complete antenna (not a single dipole)

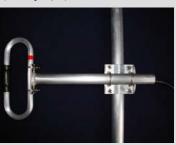


1/4 - wave spacing (5.95 - 8.5 dBd gain) (Omnidirectional - Offset pattern)

*Site-specific mounting masts and clamps are recommended for Delta0 Series

antennas. Please consult JAG to determine suitable accessories for your application

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1/2 - wave spacing (8 dBd gain) (Bi-directional / Elliptical pattern)



Heavy-duty dipole fixture



Natural rubber plugs & Heavy-duty galvanized clamp w/S.S. hardware

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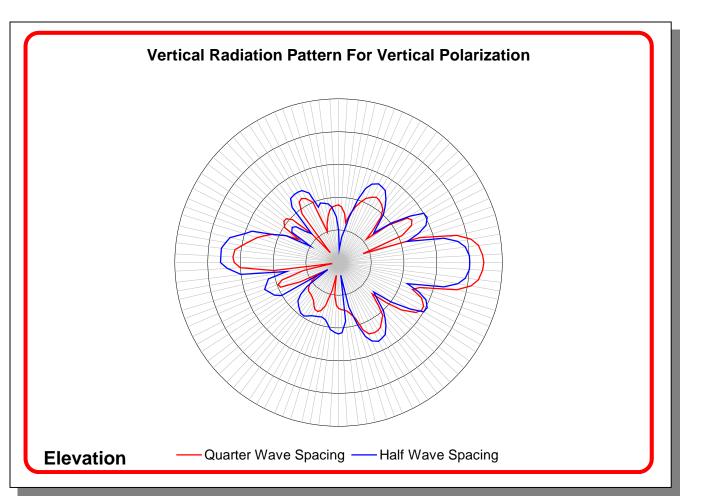
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Delta0 Series EXPOSED FOLDED UNF DIPOLE 4-Bay Array 195-245 MHz



JAG-220-4-EX-FM



* This is a general representation of the Delta0 Series JAG-220-4-EX-FM antenna radiation pattern. For the latest detailed pattern contact JAG Applications Engineering.

WARRANTY

JAG Electromagnetics warrants all its products against defects in material or workmanship and is only applicable if failure results from these factors within five years from the purchase date by the user. Jag Electromagnetics will be responsible for the supply, at no charge, of new or rebuilt replacements in exchange for defective parts for the duration of the warranty. This warranty does not extend to any JAG products that have been subject to misuse, neglect, accident, improper installation or application. In addition, this warranty does not extend to products that have been repaired or substantially altered outside our manufacturing plant.

JAG Electromagnetics will not be liable for any incidental or consequential damages due to failure of a JAG product under this warranty or any implied warranty. JAG is in no event liable for consequential damages or other costs of any kind as a result of the use of the products manufactured by JAG. No envoy is sanctioned to presume for JAG any other legal responsibility in connection with JAG products. JAG Electromagnetics is not accountable for replacement of any product damaged by lightning.

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JAG-220-4-EX-FM Product Specificatior

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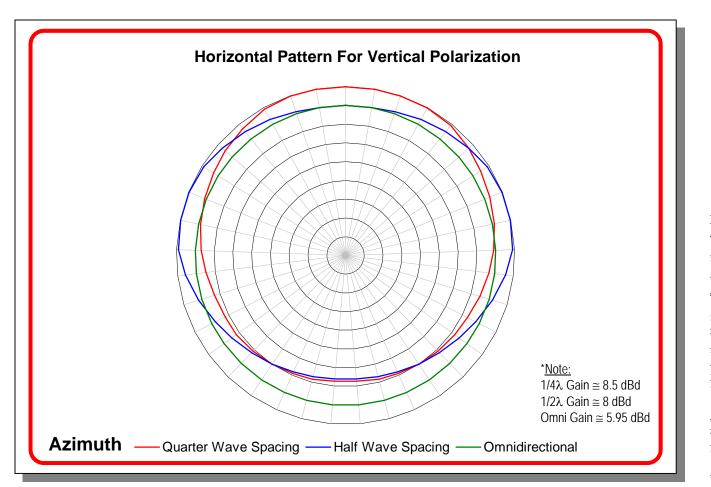
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