



A low-noise 6 element 50MHz LFA-3 third generation G0KSC Yagi



## Description

Available through WiMo Germany and DX Engineering in the USA - for Direct factory supply, Email us for pricing and time lines.

[www.dxengineering.com](http://www.dxengineering.com) - [www.wimo.com](http://www.wimo.com)

**A 6 element low-noise LFA-3 third generation LFA Yagi designed by G0KSC**

The G0KSC LFA Yagi is a major step forward in the development of the Yagi Antenna; **it provides a low-noise front-end for your radio so you hear more weak signals.** The 5 element 50Mhz LFA-3 provides stunning performance across the important section of the 6m band (50.00 - 50.350MHz) with excellent gain levels for its size and **specifically optimised for FT8 mode.** the LFA-3 is a result of many years of optimisation honing resulting in a wide-spaced Yagi with all the associated benefits of the original LFA with higher gain per foot of boom!

### DEMONSTRATION

VA3NCD had the luxury of being able to install 2 50MHz 7el Yagis for testing one against the other. One an M2 7el JHV, the other an InnovAntennas 7el LFA-WOS. He points them to various beacons and switches the antennas.

No need to explain which is the LFA and why the LFA Yagi is called THE Low Noise Yagi!



#### **The long-boom 6el @ A92HK**

##### **Performance**

**Gain:** 12.81dBi @ 50.150MHz

**F/B:** 27.62dB @ 50.150MHz

**Peak Gain:** 12.90dBi

**Peak F/B:** 27.76dB

**Power Rating:** **7kw**

**SWR:** Below 1.1:5 from 50.00MHz to 50.300MHz

**Stacking Distance:** 7m recommended

**2 Stacked Gain @ 7m spacing:** 15.70dBi

**2 Stacked F/B:** 25.74dB

**2 Stacked Gain @ 4.70m Spacing 10m above ground:** 20.64dBi

**Boom Length:** 8.2m

**Weight:** 7.23Kg / 16LB

**Turning Radius:** 4.3m / 14.2ft

**Wind Loading:** 0.28 Square Metres / 3 Square feet

**Wind Survival:** 176KPH / 110MPH

*Other options available if higher wind loading/survival is required.*

##### **Specification**

This antenna is made with 16mm centre elements and 13mm outer tip sections which have a 2mm wall thickness. the boom is made from 40mm square tube with a wall thickness of 2mm, a boom guy is supplied. The antenna has fully insulated elements which will ensure continuous, high performance for many years to come. Boom to mast brackets are included with all antennas which will support 2 inch (50mm) masts.

Our antennas are constructed with the best quality materials in order that the best mechanical construction can be achieved, not the cheapest

and most profitable! Even a digital caliper is used (with an accuracy of .01mm) to measure the elements during production to ensure they are within 0.2mm of what they should be, this ensures they work as well as our software model predicts.

Note: Much development time has gone into our antennas, not just on basic electromagnetic design, we are able to model the effect of insulators, booms and other objects to ensure the make up of our antennas have least effect on performance and pattern degradation. More information can be found [here](#)

- **Marine grade Stainless Steel Fittings**
- **Original Stauff Insulation clamps**
- **Mill finished boom and elements for highest levels of accuracy**

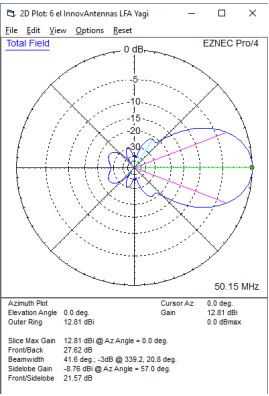


4 x 6el LFA-3 for 50MHz @ JA7QVI



4 x 6el LFA-3 on 8.2m boom at TF3ML

**If you require a full stacked system, InnovAntennas can supply all cable, H-frames and everything you need for a turnkey solution. Contact sales 'at' [innovantennas.com](mailto:innovantennas.com)**



Azimuth plot of the 6el 50MHz LFA-3

Manufactured the right way, not the cheapest way!  
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