



IOJXX di Donzello Rosanna

Via della Fattoria di Torrenova 3 - 00133 Roma - Italy




















☎ & Fax +39 (0) 6 - 27858223 📞 +39 3282899664

VAT number: IT09527381009

www.iojxx.com - info@iojxx.com

 Skype: [i0jxx.com](https://www.skype.com/addtocontact?contact=i0jxx.com)

6JXX6 Yagi

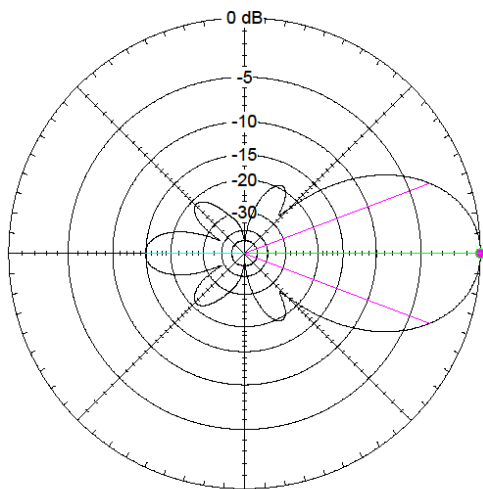
Item		Q.ty	Item		Q.ty
Stainless steel nut M5		6	Stainless steel bolt M5x40		2
Stainless steel nut M6		1	Stainless steel bolt M5x45		2
Stainless steel nut M8		7	Stainless steel Eyescrew M5		2
Lock washer 8 mm Ø		7	Stainless steel bolt M8x35		2
Flat washer 8 mm Ø		7	Stainless steel bolt M8x90		2
Lock washer 5 mm Ø		6	Stainless steel Turnbuckle		2
Lock washer 6 mm Ø		1	Stainless steel bolt M6x35		1
Flat washer 6 mm Ø		1	Stainless steel bolt M4x20		6
Lock washer 4 mm Ø		6	Stainless steel parker screw 3.5x9.5		11
Stainless steel nut M4		6	Plate PIA40JXX		1
Section boom A 25 mm Ø	115 cm.	1	Plate PIA00JXX		1
Section boom A - B 30 mm Ø	115 cm.	1	Semi-element Ø 12 mm		12
Section boom B - C 35 mm Ø	115 cm.	1	Dipole Hairpin and balun ISO30D_12		1
Section boom C - D 40 mm Ø	115 cm.	1	Insulator ISO25_12		2
Section boom D - E 35 mm Ø	115 cm.	1	Insulator ISO30_12		1
Section boom E - F 30 mm Ø	115 cm.	1	Insulator ISO35_12		2
Section boom F 25 mm Ø	115 cm.	1	Inbuss key 3 mm		1
Dacron rope front	320 cm.	1	Hairpin	155 mm	1
Dacron rope back	260 cm.	1			

Total Field

EZNEC+

Total Field

EZNEC+



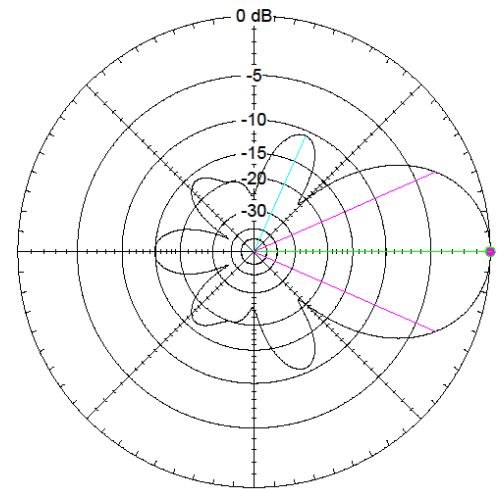
Dipole in free space

50,1 MHz

Azimuth Plot
Elevation Angle 0,0 deg.
Outer Ring 12,41 dBi

Cursor Az 0,0 deg.
Gain 12,41 dBi
0,0 dBmax
0,0 dBmax3D

3D Max Gain 12,41 dBi
Slice Max Gain 12,41 dBi @ Az Angle = 0,0 deg.
Front/Back 14,82 dB
Beamwidth 41,4 deg.; -3dB @ 339,3, 20,7 deg.
Sidelobe Gain -2,41 dBi @ Az Angle = 180,0 deg.
Front/Sidelobe 14,82 dB



Dipole in free space

50,1 MHz

Elevation Plot
Azimuth Angle 0,0 deg.
Outer Ring 12,41 dBi

Cursor Elev 0,0 deg.
Gain 12,41 dBi
0,0 dBmax
0,0 dBmax3D

3D Max Gain 12,41 dBi
Slice Max Gain 12,41 dBi @ Elev Angle = 0,0 deg.
Front/Back 14,82 dB
Beamwidth 47,4 deg.; -3dB @ 336,3, 23,7 deg.
Sidelobe Gain 1,78 dBi @ Elev Angle = 66,0 deg.
Front/Sidelobe 10,63 dB

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Combine the boom respecting the letters placed at the ends of each section
Insert the screws M5x35 mm washer and nut into the junction points **A - A**
and **D - D** then insert the screws M5x40 mm washer and nut, junction points
B - B and **C - C**



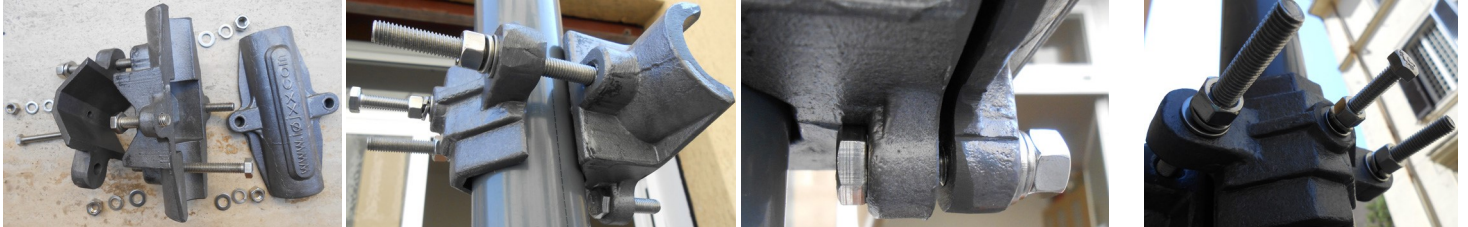
Combinez le boom sur les lettres placées aux extrémités de chaque section
Insérez les vis M5x35 mm rondelle et un écrou dans les points de jonction **A - A**
et **D - D** puis, insérez les vis M5x40 mm rondelle et un écrou, les points
de jonction **B - B** et **C - C**



Kombinieren Sie den Boom und achten Sie dabei auf die Buchstaben am
Ende jeder Sektion
Fügen Sie die Schrauben M5x35 mm Unterlegscheibe und Mutter in die Ver-
bindungsstellen **A - A** und **D - D**, und die Schrauben M5x40 mm Unterleg-
scheibe und Mutter in den Knotenpunkte **B - B** und **C - C**



Unire il boom rispettando le lettere poste alle estremità di ogni singola sezio-
ne
Inserire le viti M5x35 mm rondella e dado, nei punti di giunzione **A - A** e **D - D**,
inserirle le viti M5x40 mm rondella e dado, nei punti di giunzione **B - B** e
C - C



Attach the mounting plate between boom and mast **PIA40JXX** between
elements **3 - 4**



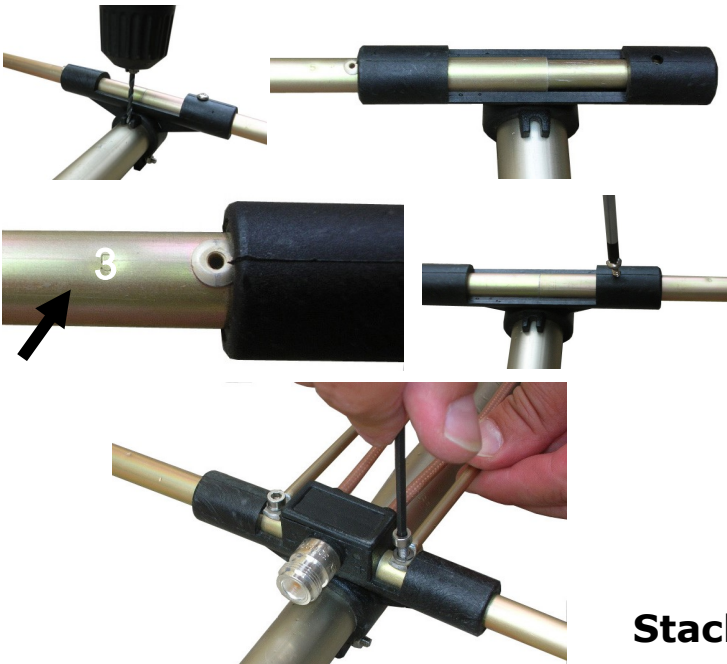
Fixez la plaque de montage entre la flèche et le mât **PIA40JXX** entre les
éléments **3 - 4**



Montieren Sie die Montageplatte zwischen Ausleger und Mast **PIA40JXX**
zwischen den Elementen **3 - 4**



Montare la piastra di fissaggio tra boom e mast **PIA40JXX** dietro l'elemen-
to **3**



Insert elements as shown in the figure spaced apart and balanced (as
shown in the figure) with the elements standing under the boom, in order
to avoid ponding, ice accretion and snowdrift



Fügen Sie die Elemente räumig und zentriert hinein und fügen Sie sie mit
den Elementen unter dem Boom zusammen, wie in der Abbildung darge-
stellt (siehe Abbildung). Das sollte die Anhäufung von Wasser, Eis und
Schnee verhindern.



Insertion d'éléments comme indiqué sur la figure (voir la figure) spatial et
centré avec les éléments placer sous le boom, comme ça on peut éviter
cumulus d'eau, de glace et de neige



Inserire gli elementi come riportato in foto e spaziate centro-centro (vedi
figura), con gli elementi sotto al boom, in modo da evitare l'accumulo di
acqua, ghiaccio e neve



Match the dipoles as shown in the figure



Verbinden Sie die Dipole wie abgebildet



Installez les dipôles comme représenter



Montare il dipolo come indicato in figura

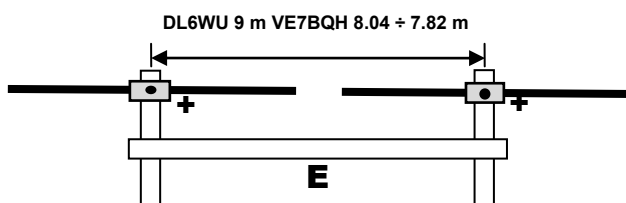
Stacking

In order to obtain the best results in coupling the antennas, we warmly recommend an adequate antenna stacking calculation which would allow the best forward gain together with low side lobes. The stacking distance may be calculated with the following formula from Güenter Hoch DL6WU

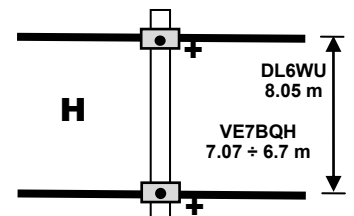
On the basis of further studies conducted by Lionel VE7BQH over the antenna stacking argument, a reduction of 5÷10% may be introduced on stacking distances without noticing significant overall worsening of the characteristics. Do respect the driven element supplying symmetry to allow anti-phase coupling

$$\text{Plane E} = 38.8^\circ = \frac{5982}{2 * \sin(41.4 / 2)} = \frac{5982}{0.7069} \cong 8.46 \text{ m (with VE7BQH from 8.04 m to 7.62 m)}$$

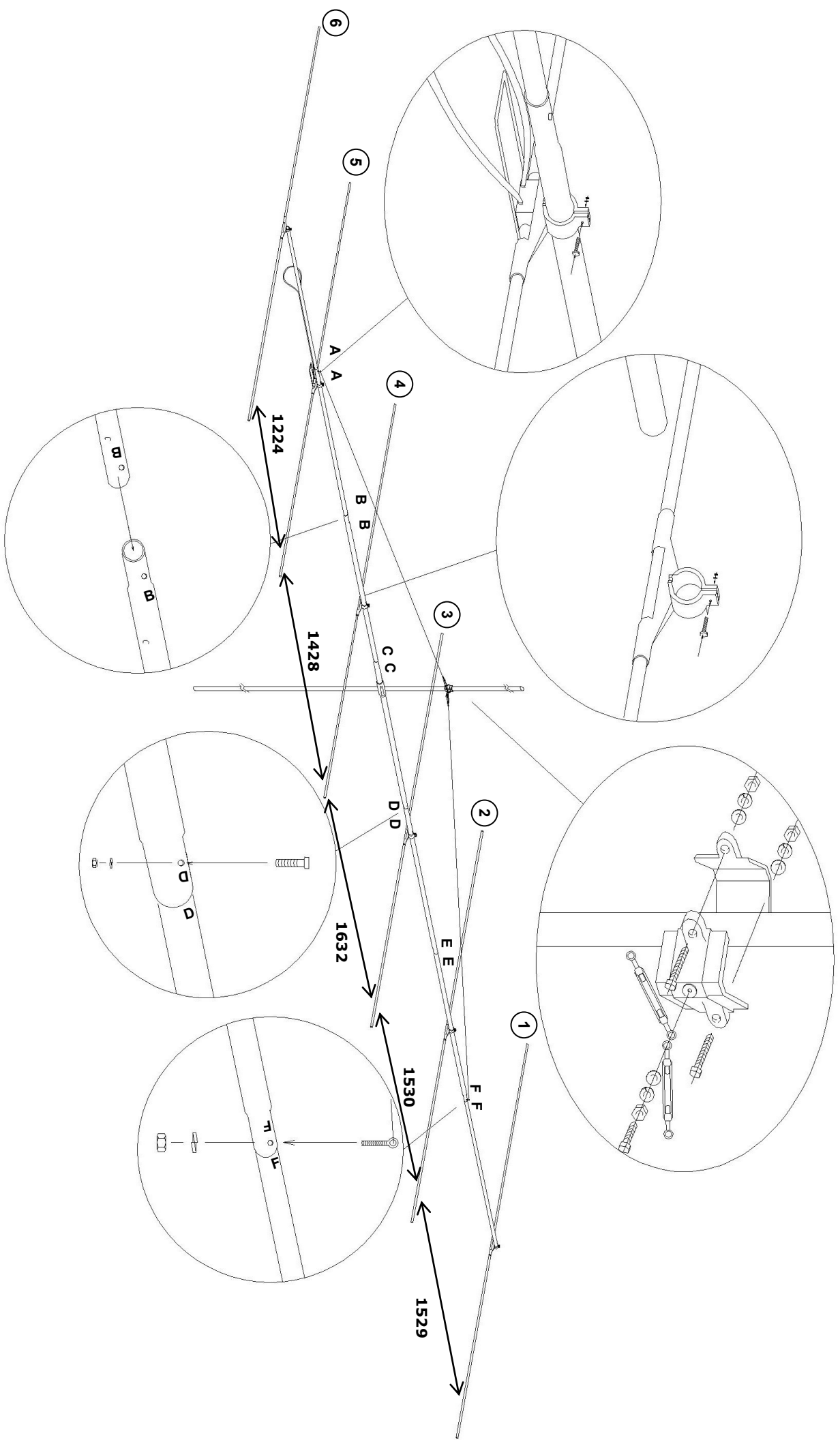
$$\text{Plane H} = 43.6^\circ = \frac{5982}{2 * \sin(47.4 / 2)} = \frac{5982}{0.8039} \cong 7.46 \text{ m (with VE7BQH from 7.07 m to 6.7 m)}$$



$$d = \frac{L}{2 * \sin(\Phi / 2)}$$



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