



IØJXX di Donzello Rosanna

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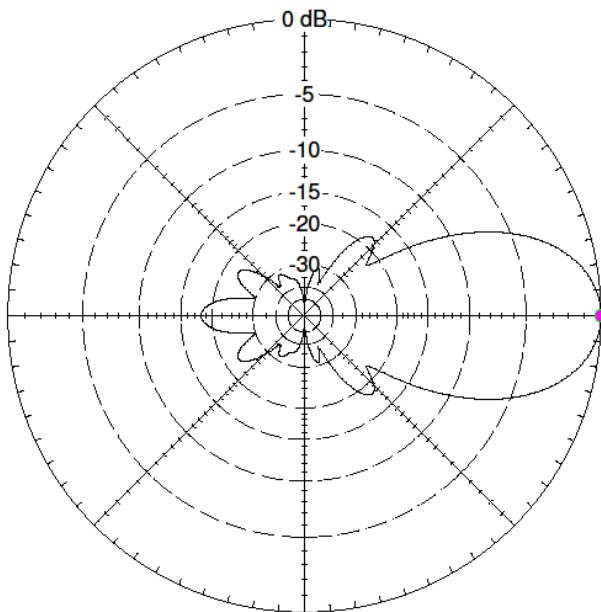
8JXX2 BACK

Item		Q.ty	Item		Q.ty
Stainless steel nut M4		6	Stainless steel bolt M4x40		5
Stainless steel nut M6		10	Stainless steel bolt M4x35		3
Nylon nut M8		7	Stainless steel EYE bolt M4x30		1
Lock washer 4 mm Ø		7	Stainless steel bolt M4x30		1
Lock washer 6 mm Ø		10			
Flat washer 6 mm Ø		10	Section boom C 35 mm Ø	75 cm.	1
Element 1÷8		7	Section boom C — B 30 mm Ø	150 cm.	1
Dipole with Hairpin and balun		1	Section boom B— A 25 mm Ø	150 cm.	1
Ergal Plate PIA35JXX		1	Section boom A 20 mm Ø	150 cm.	1

Total Field

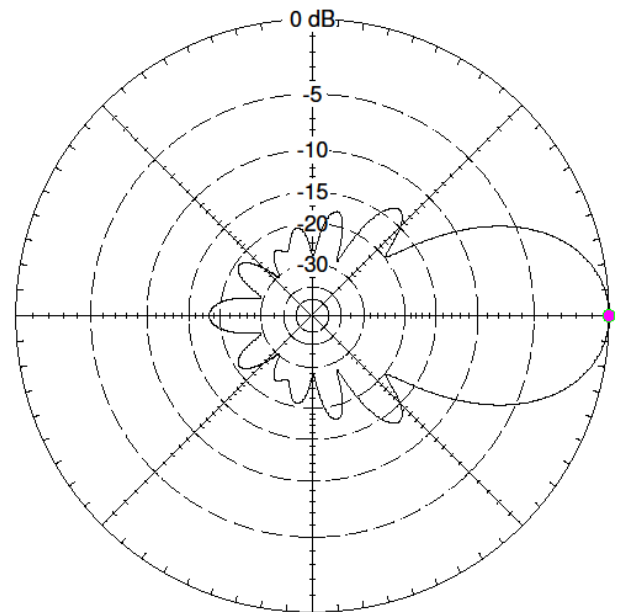
EZNEC+ Total Field

EZNEC+



Dipole in free space

144,4 MHz



Dipole in free space

144,4 MHz

Azimuth Plot
Elevation Angle 0,0 deg.
Outer Ring 14,28 dBi

Cursor Az Gain 0,0 deg.
14,28 dBi
0,0 dBmax
0,0 dBmax3D

3D Max Gain 14,28 dBi
Slice Max Gain 14,28 dBi @ Az Angle = 0,0 deg.
Front/Back 18,13 dB
Beamwidth 34,8 deg.; -3dB @ 342,6, 17,4 deg.
Sidelobe Gain -3,79 dBi @ Az Angle = 49,0 deg.
Front/Sidelobe 18,07 dB

Elevation Plot
Azimuth Angle 0,0 deg.
Outer Ring 14,28 dBi

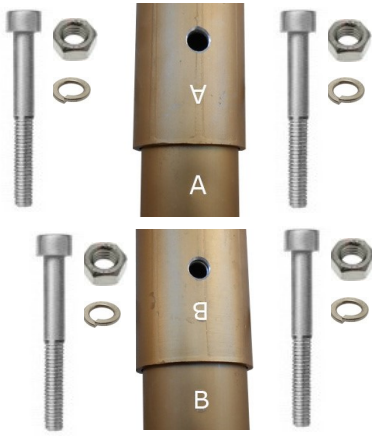
Cursor Elev Gain 0,0 deg.
14,28 dBi
0,0 dBmax
0,0 dBmax3D

3D Max Gain 14,28 dBi
Slice Max Gain 14,28 dBi @ Elev Angle = 0,0 deg.
Front/Back 18,13 dB
Beamwidth 38,2 deg.; -3dB @ 340,9, 19,1 deg.
Sidelobe Gain 1,01 dBi @ Elev Angle = 51,0 deg.
Front/Sidelobe 13,27 dB

IØJXX may vary them without any warning

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Combine the boom respecting the letters placed at the ends of each section
 Insert the screws M4x40 mm washer and nut into the junction points **C - C** ; M4x35 mm **C - B** ; M4x30 mm **B - A** and eyebolt



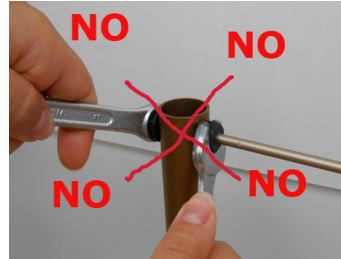
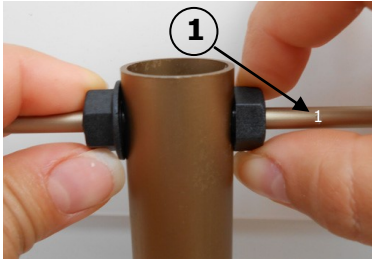
Kombinieren Sie den Boom und achten Sie dabei auf die Buchstaben am Ende jeder Sektion
 Fügen Sie die Schrauben M4x40 mm Unterlegscheibe und Mutter in die Verbindungsstellen **C - C** ; M4x35 mm **C - B** ; M4x30 mm **B - A** und eyebolt



Combinez le boom sur les lettres placées aux extrémités de chaque section
 Insérez les vis M4x40 mm rondelle et un écrou dans les points de jonction **C - C** ; M4x35 mm **C - B** ; M4x30 mm **B - A** et eyebolt



Unire il boom rispettando le lettere poste alle estremità di ogni singola sezione
 Inserire le viti M4x40 mm rondella e dado, nei punti di giunzione **C - C** ; M4x35 mm **C - B** ; M4x30 mm **B - A** e vite con golfare



Insert elements as shown in the figure, hand tighten the nut M8 Nylon (**do not use keys as the material used has a self-locking function**)



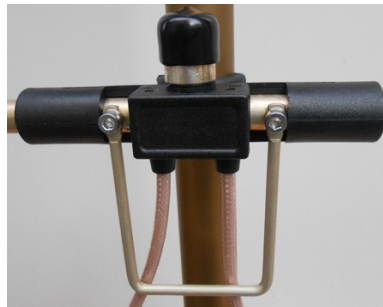
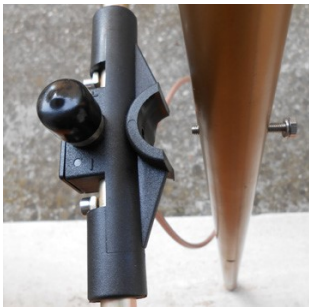
Fügen Sie die Elemente hinein wie in der Abbildung dargestellt, schrauben Sie die Mutter M8 Nylon mit den Händen zusammen (**benutzen Sie keine Schlüssel, da das verwendete Material eine Selbstverriegelung hat**)



Insersion d'éléments comme indiqué sur la figure, serrez à la main l'écrou M8 nylon (**ne pas utiliser les touches que le matériau utilisé a une auto-verrouillage**)



Inserire gli elementi come riportato in figura, stringere a mano il dado in Nylon da M8 (**non utilizzare chiavi in quanto il materiale impiegato ha effetto auto-bloccante**)



Match the dipole with M4x40 mm and washer as shown in photo



Verbinden Sie die Dipole mit der M4x40 mm Schraube und der Unterlegscheibe wie das Foto zeigt



Installez les dipôle avec M4x40 mm et la rondelle comme indiqué sur la photo



Montare il dipolo con vite M4x340mm e rondella come indicato in foto



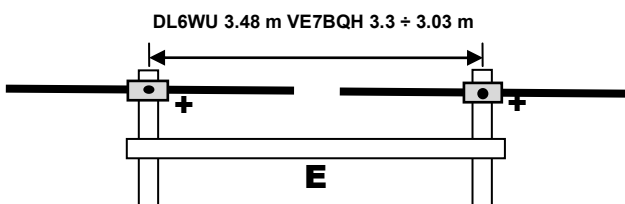
Stacking

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

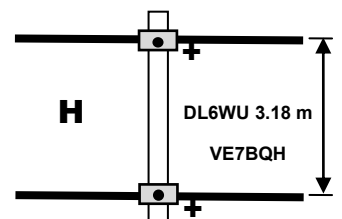
On the basis of further studies conducted by Lionel VE7BQH over the antenna stacking argument, a reduction of 5÷10% may be introduced on stacking distances without noticing significant overall worsening of the characteristics. Do respect the driven element supplying symmetry to allow anti-phase coupling

$$\text{Plane E} = 34.8^\circ = \frac{2079}{2 * \sin(34.8 / 2)} = \frac{2079}{0.598} \cong 3.48 \text{ m (with VE7BQH from 3.3 m to 3.13 m)}$$

$$\text{Plane H} = 38.2^\circ = \frac{2079}{2 * \sin(38.2 / 2)} = \frac{2079}{0.6544} \cong 3.18 \text{ m (with VE7BQH from 3.02 m to 2.86 m)}$$



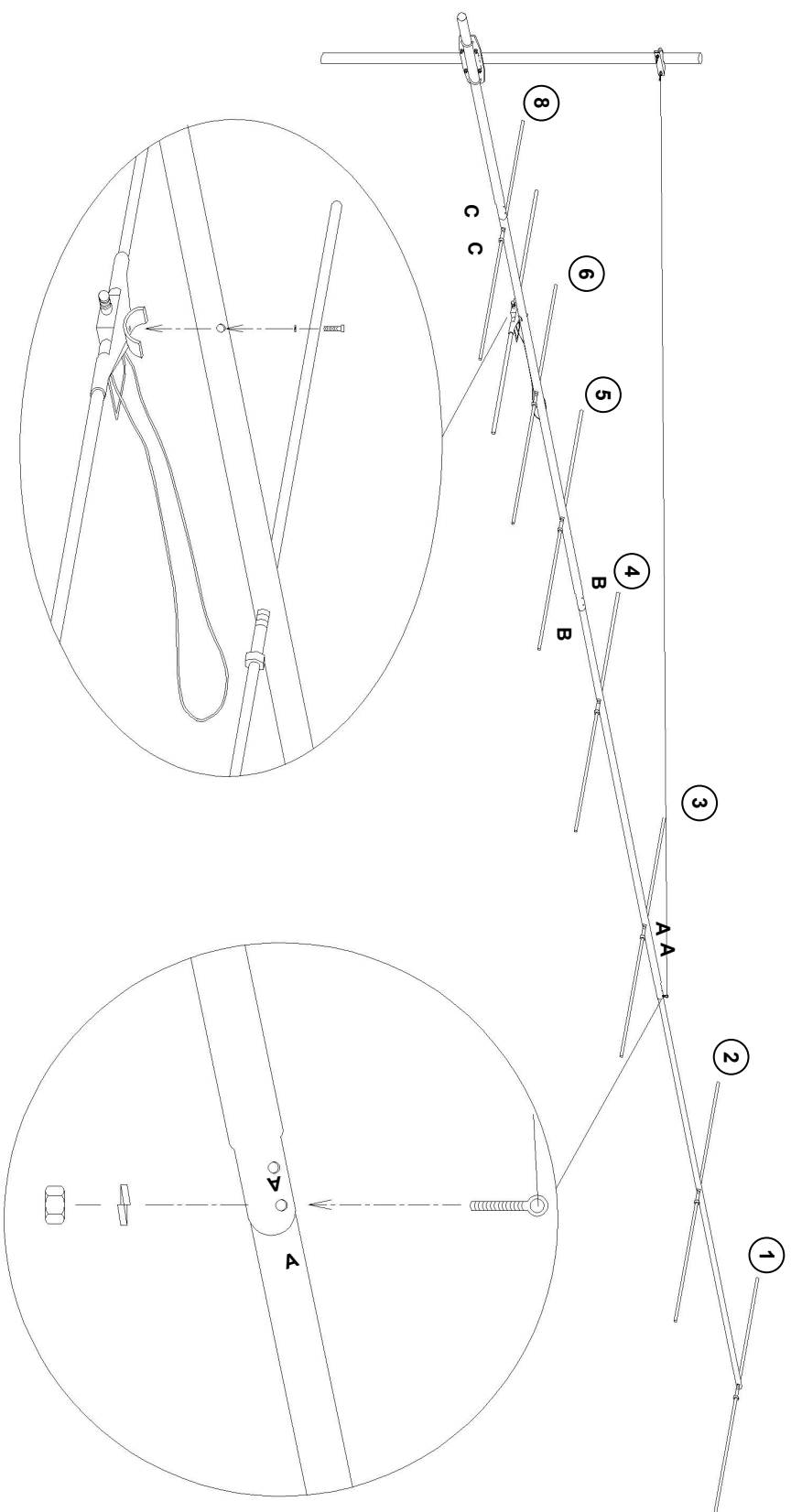
$$d = \frac{L}{2 * \sin(\Phi / 2)}$$



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