DOUBLE –BAZOOKA ~ COAXIAL DIPOLE BROAD-BAND DIPOLE
Originally developed by the staff at M.I.T. for radar use, and later in QST, July 1968. This antenna consists of a half-wavelength section of coax line with the shield opened a the center and feed line attached to the open ends of the shield. The outside conductor of the coax acts a half-wave dipole in combination with the open wire end sections of the antenna. The inside sections, do not radiate, but act as quarter-wave shorted stubs which presents high resistive impedance to the feed point at resonance and tends to cancel reactance as frequence off resonant frequencies, thus increasing band width. This antenna can be cut for any operating frequency, from 160-meters down. The RG-58U is capable of handling a full kilowatt. This design is broad-banded will provided low SWR over the entire 80 and 40 meter bands. Construction techniques are not critical. It can be put together with insulators and relief strains or thrown together in an emergency with just twisting and taping. How well its built will determine how long it stays up of course.

This antenna is perfect for stealth work. As it is instuated it can be placed in trees, under eaves or next to house trim even in attics. It cariDe put up as a dipole, inverted V, vertical dipole and sloper. Its ends can be bent to accommodate unusual spaces. The 40 meter antenna can be used for 15 meters. And I have worked OX on 17 meters off an 80 meter, but the SWR was a little high a tuner would have made things better, but I worked him and that's what Counts.

CONSTRUCTION TABLES

Freq.	L1	L2	L3
3.7 MHZ	124'4"	87'10"	18'3"
7.15 MHZ	64'4"	45'5"	9'5"
14.175 MHZ	32'5"	22'11"	4'9"
21.225 MHZ	21'8"	15'4"	3'2"
28.85MHZ	15'11"	11'3"	2'4"

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by W5BGP