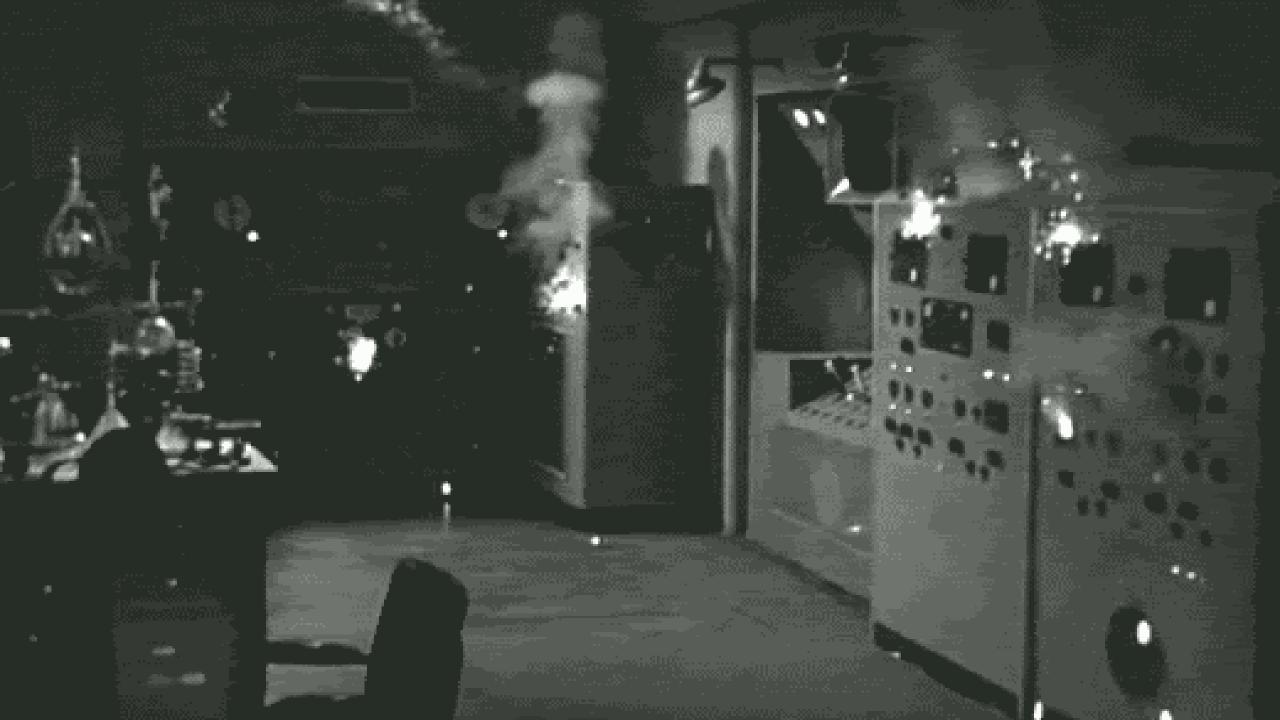
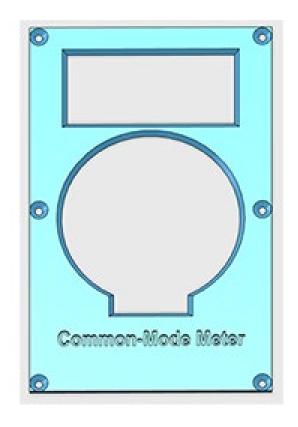
BIT TARRE HAMASIA I SIOUBRI PROBE



RF Probes

owenduffy.net





https://owenduffy.net/module/icm/#:~:text=An%20approach%20to%20measurement%20Common%20mode%20current%20can,half%20wave%20detector%20driving%20a%20high%20impedance%20voltmeter.



MFJ-853H, CLAMP-ON,
MINI RF CURRENT METER, HI-PWR

\$109.95

Clamp-on ferrite choke with an added pickup coil & meter



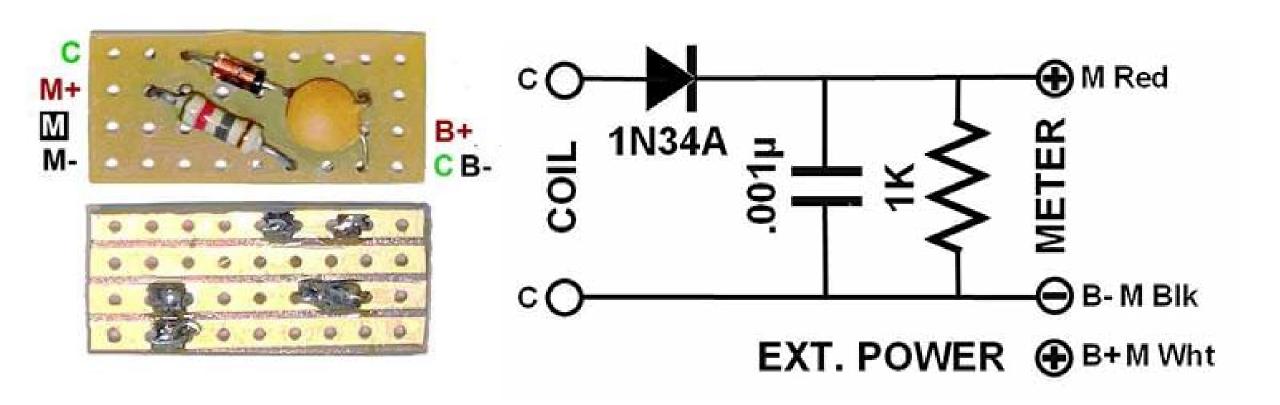
The W60EK Version

Without and With 3D Printed Cover

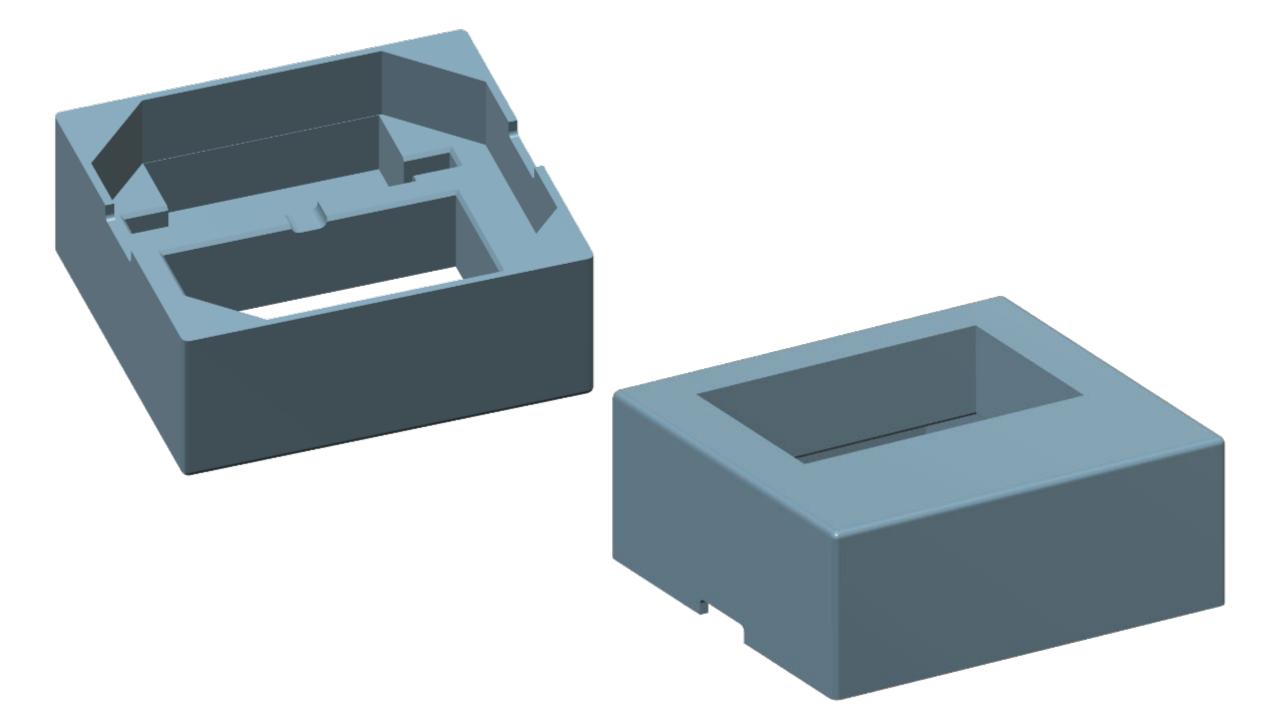
Bill of Materials

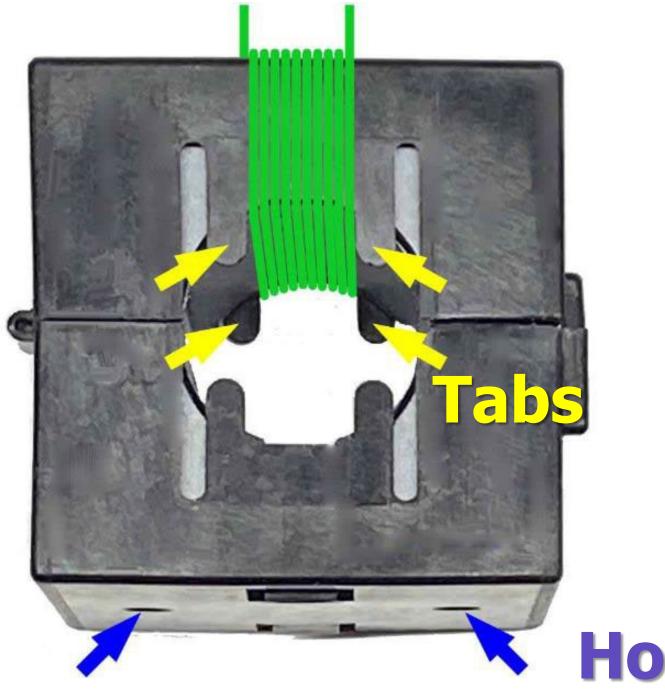
w6nbc.com /slides

1	Snap-on mix 43 Ferrite choke for RG-8, RG-213 size coax. (0.405 in.)	e.g. Fair-Rite 0443164151 snap-in, Palomar Engineers FSB43-1/2, ID=1/2" or similar
10	Insulated magnet wire,	Electronic parts supplier
turns	AWG 24 (or smaller)	
1	3-digit digital voltmeter, 3-	Amazon, EBay, mpja.com, Walmart,
	wire 100V version (see text)	surplus electronics dealers
1	1N34 diode	Electronic parts supplier
	100 mil linear copper strip	Electronic parts supplier
	perfboard	
1	2 cell (6V) 2032 coin cell	https://www.amazon.com/dp/B092V
	holder with cells and switch	FFCR8?psc=1&ref=ppx_yo2ov_dt_b
		_product_detailsAmazon, EBay
	3M VHB Double Sided	Local hardware store, internet
	Heavy Duty Outdoor	
	Mounting Tape or sticky	
	squares	
1	3D printed probe cover	.stl 3D printer file: xxxxxx



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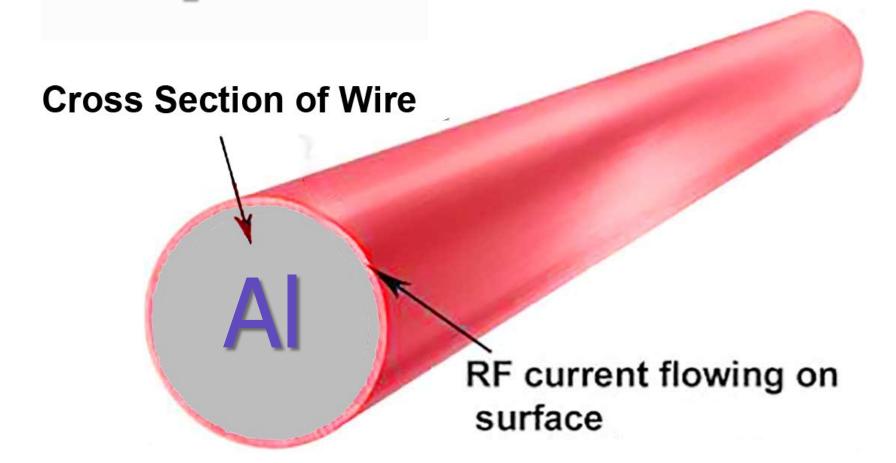




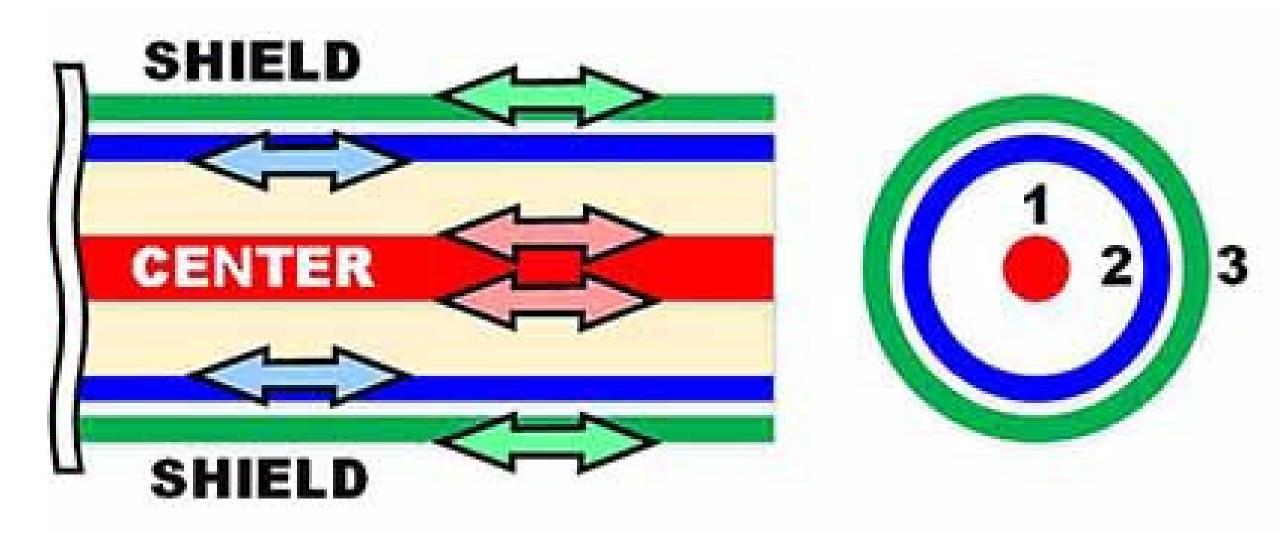
Holes

Pignani BA IIIS

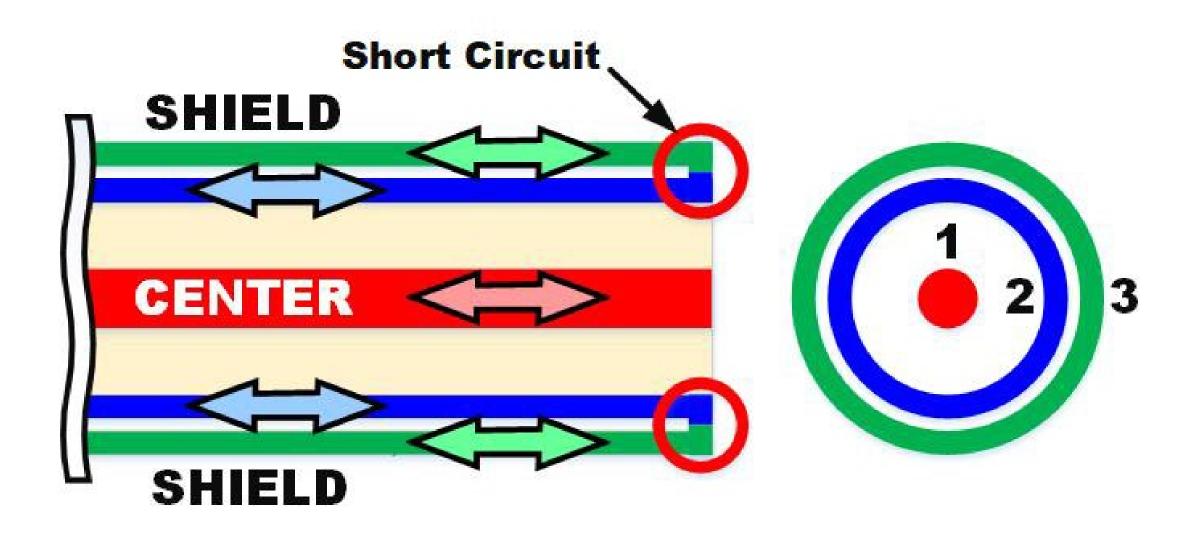
Baluns → A Consequence of Skin Effect



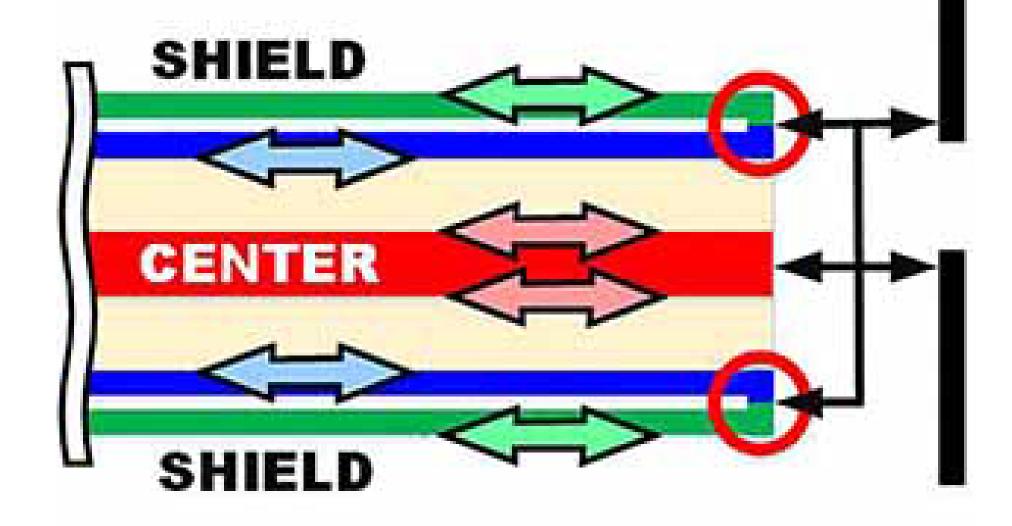
Surprise One: Coax has 3 wires



Surprise Two: The Ends are Shorted

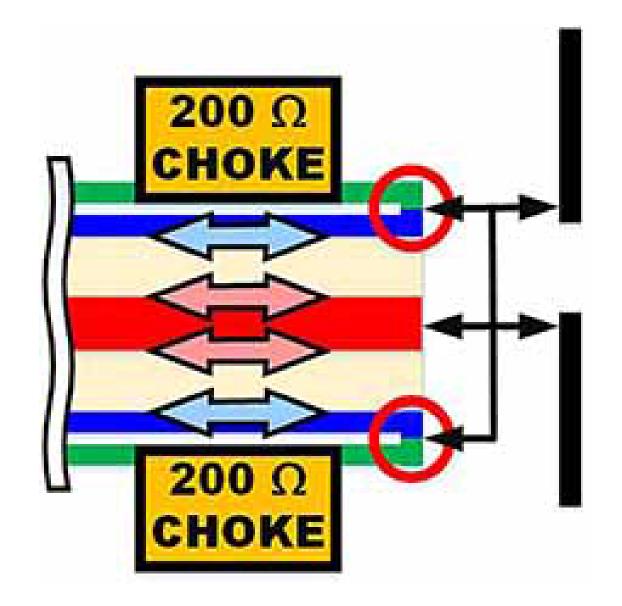


Source of Shield Current



Add a Third Wire?



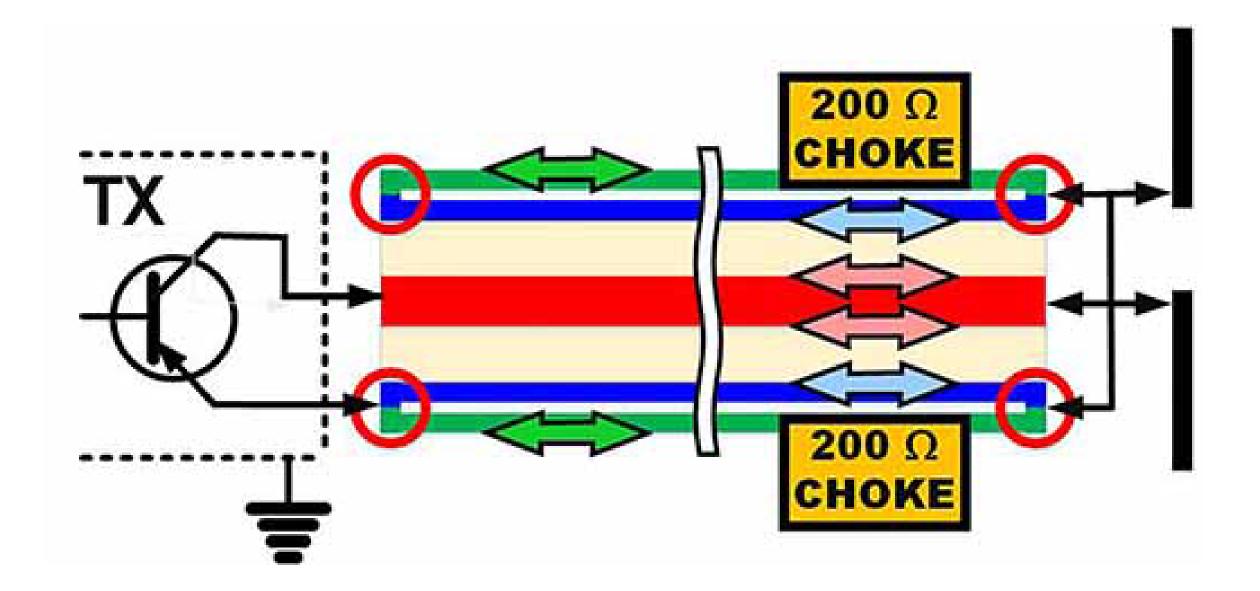


The PRIMARY job of ALL baluns is **ALWAYS** to choke off outside shield current

2009 (4x system Z) is the commonly accepted "minimum" choking value

A secondary job may also be to be an impedance transformer 4:1, 7:1 etc.

The Big Singlise



AXIOM

Any place coax ends and there's a balanced source of energy,

RF can get onto the shield

Jim's Experience



Conductive Fabric Faraday Shield



So, Choke, Choke, Choke Beginning & End Not only at the antenna More the one okay Even also with a 4:1, 9:1 etc.



w6nbcmail@ gmail.com

w6nbc.com/probe "Thats all colls



