

WCBN Shively 6810 Feedline Loss Worksheet:					
jac 061018					
	Summary:				
	- The Shively 6810-2R-DA antenna requires .626 kW input power to produce the specified ERP.				
	- Feedline length is 148 ft with .346 db loss per 100 feet at 88 MHz.				
	- Total feedline loss is .512 db.				
	- Required Transmitter output is .704 kW to provide .626 kW into the antenna.				
	HJ5-50 feed line spec:				
	https://www.hol4g.com/webpdf/AND_555.PDF				
	Feedline Length:				
	Feedline Length>	148	ft		
	HJ5-50 Loss:				
	Loss @88Mhz/100ft>	0.346	db/100ft		
	=	0.00346	db/ft		
	Total Feedline Loss=	0.512	db		
	Feedline Loss and Transmitter Output Power:				
	Feedline Loss=	0.512	db		
	Input to Antenna>	626	W		
	Input to Feedline=	704.3	W		