

## BCR Repeater to S-COM 7330 Controller

Cable used: Belden 9537

Color	Function	S-COM DB9 -Male	BCR DSUB 25 - Male
Black	GND	9	25
Orange	PL Decode Valid (Active LO) Open Drain Output - Pull up required	3	17
White	RX Audio – Flat Audio	1	8
Blue	TX Audio – 4.7K in series to pad audio level	5	19
Green	CTCSS Encode ***	8	21
Red	COR Output from RX Active High **	2	12
Brown	PTT Out – Goes to PTT In of Repeater – Active LO	4	20
Shield	Shield – GND	9	25

\*\* The BCR Repeater internal high power FET is called into service to provide a solid positive going signal on Pin 12 when COS is active. Jumper with a 4.7K ohm resistor pins from pins 11 to pin 1 on the BCR repeater side of the connector to enable Pin 12.

\*\*\* If using the SCOM to generate CTCSS, ensure proper tuning of signal measured at TP1 on the accessory board of the BCR. While S-COM is generating a CTCSS tone, Voltage at TP1 should 1.5 DC.

BCR repeater must be programmed to assert Pin 17 based on Valid Signal. This is done from Edit Channel screen in programmer. Move the Factory Jumper (red) from J25 to J31 COR1 Invert pins

