

BCR Repeater (BCR-50V, BCR-40U, and BCR-220)

Connectivity to STM_32_DVM Version 3

<http://www.repeater-builder.com/products/stm32-dvm.html>

Cable used: Belden 9537, however a 5 conductor cable with shield is perfect.

Color	Function from STM_32 DVM perspective	9 Pin STM DSUB Male	BCR DSUB 25 Male
Black	GND	8	25
Orange	PL Decode Valid Active LO	3	17
White	RX Audio In	6	8
Blue	TX Audio Out –	2	21 *
Red	B+ (if DC-DC module is installed on STM-32)	9	1**
Green	NOT USED		
Brown	PTT Out – Goes to PTT In of Repeater	5	20
Shield	Shield – GND	8	25

* When using the modem calibration program, use P1 on the repeater's accessory board to measure 1.5 Vdc on TP1. This ensures maximum dynamic range as the modem TX data meets the transmitter's TCXO.

**If DC-DC Converter is installed on MMDVM, then do not use an external supply to Raspberry Pi.

THIS CABLE CANNOT BE USED WITH PREVIOUS VERSIONS ON THE PiHAT.