



Connection Notes RIM_Lite to Icom IC-FR3000/4000 Repeater

Cable Information:

RIM_Lite (DE-9)	Signal	IC-FRx000(DB- 25M)	Notes
1	→→ Aux. TX Audio →→	8	Voice TX and/or CTCSS
2	→→ Main TX Audio →→	9/10*	Voice TX Audio (Mic level)
3	←← COS in ←←	1	Active Low
4	←← CTCSS in ←←	N/A	
5	→→ PTT →→	19	Enable in Expert > ACC CH Select
6	←← RX Audio (Discriminator) ←←	12	Discriminator Audio
7	→→ PC_OK →→	6	Selects "base" operation
8	←← Ground →→	20 - 25	
9	←← Ground →→		

* = Default in cables built by Repeater-Builder

NOTES:

In AllStar set:
 carrierfrom=usbinvert and ctcssfrom=no
 txmixa=voice
 txmixb=tone

Make sure pre-emph and limiting is turned ON if using pin 9 for voice and OFF if using pin 10*.

RX De-emph. will need to be turned ON due to discriminator RX audio.

The repeater becomes a full-duplex base station.

On the front of the repeater press the remote button which enables the External PTT - *maybe* - When pin 6 on the repeater is pulled low (PC_OK condition) it *should* put the repeater into full-duplex base mode.