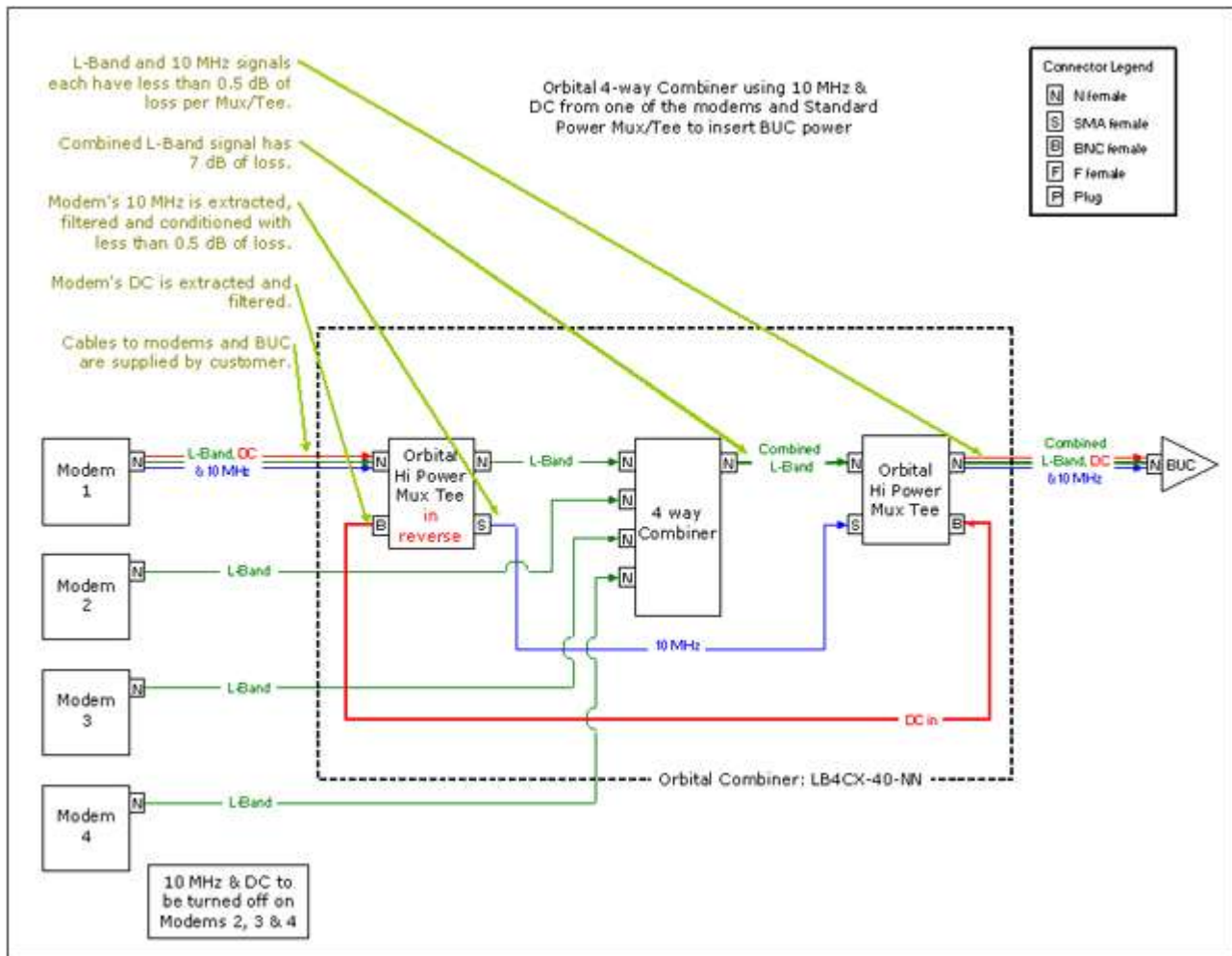


Four Way Combiner with DC Power from one of the Modems

Orbital 4-way Combiner using 10 MHz & DC from one of the modems and Standard Power Mux/Tee to insert BUC power.

An Orbital Mux/Tee in reverse is used to extract the 10 MHz signal and the modem's DC. The L-band signal from both of the modems is combined in a four-way combiner in preparation for being re-integrated with the 10 MHz reference, along with the DC power - filtered by the mux tees.



Signal Line Legend

- DC Power
- L-Band
- 10 MHz Reference

Cables from Modem to Combiner and from Combiner to BUC, supplied by customer. All of jumpers supplied by Orbital.

All modems need to have their DC turned off.

The 10 MHz signal is taken from one of the modems, however, an Orbital standalone,

10 MHz Oscillator (MOS or POS) can be used in place of the modem Oscillator.
 The Orbital Hi Power Mux/Tee is required at the output of the Combiner to re-integrate the 10 MHz with the L-Band signal. So at no extra cost, the customer can insert the DC to power the BUC at this point eliminating the need to have an extra cable out to the BUC or to have power outside at the BUC.

