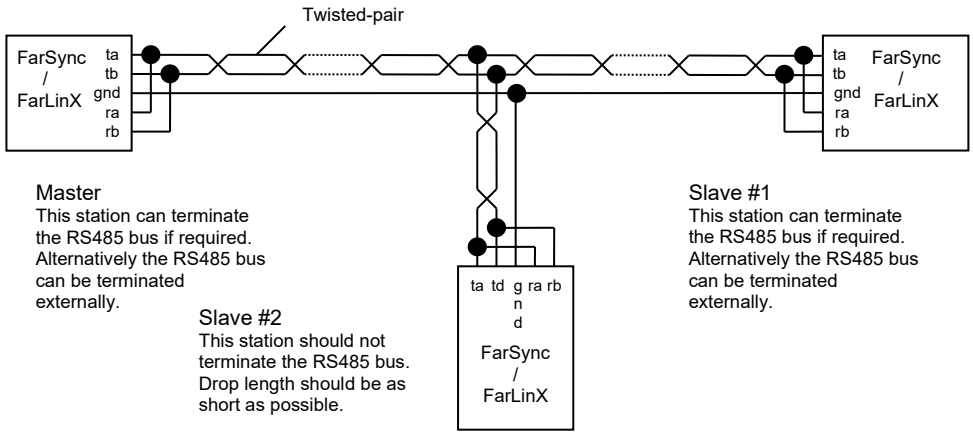
RS485 Recommended Wiring

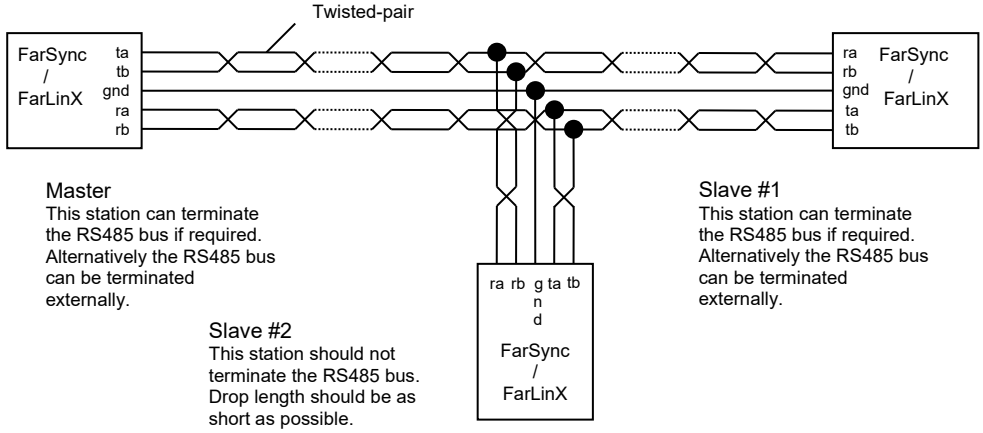
The following diagrams show the recommended schemas for 2-wire and 4-wire configurations for the WAN communications ports as found on the FarSync Flex, FarSync K2Ee, FarSync T2Ee and the FarLinX Connect.

2-Wire



Simple 2-wire multidrop RS485 network with signal ground

4-Wire



Simple 4-wire multidrop RS485 network with signal ground

Notes:

1. In addition to the data wires it is worth considering whether to use a shielded cable (Braid/Foil) connected to signal earth. The need for this will depend on the cable length, data speed being used and the environment where the wires are routed.

2. In some situations, leaving the input modem control signals in a floating state could cause the FarSync / FarLinX driver to see them continuously change state due to noise pickup. Therefore it is recommended that the CTS, DSR (if provided) and DCD signals are grounded for FarSync Flex and FarSync K2Ee/T2Ee. And the RTS and DTR signals are grounded for the FarLinX Connect.
   To keep the diagrams as simple as possible these signals have not been shown above.

 Version 1.4

For FarSync Flex HD26 pin connections	ta = TxD_a (2), tb = TxD_b (11), ra = RxD_a (4), rb = RxD_b (13), GND (9) ctsa = CTSa (6), ctsb = CTSb(15) dsr – not present dcda = DCDa (26), dcdb = DCDb (18)	
	Port A	**Port B**
For FarSync K2Ee/T2Ee HD44 pin connections	ta = TxD_a (16), tb = TxD_b (17), ra = RxD_a (33), rb = RxD_b (34), GND (37) ctsa = ACTSa(18) ctsb = ACTSb (19) dsra = ADSRa (4) dsrb = ADSRb (5) dcda = ADCDa (35) dcdb = ADCDb (36)	ta = TxD_a (15), tb = TxD_b (14), ra = RxD_a (42), rb = RxD_b (41) GND (38) ctsa = BCTSa (13) ctsb = BCTAb (12) dsra = BDSRa (27) dsrb = BDSRb (26) dcda = BDCDa (40) dcdb = BDCDb (39)
For FarLinX Connect DB25 pin connections	ta = TxD_a (2), tb = TxD_b (14), ra = RxD_a (3), rb = RxD_b (16), GND (7) rtsa = RTSa (4), rtsb = RTSb(19) dtra = DTRa (20), dtrb = DTRb (23)	

