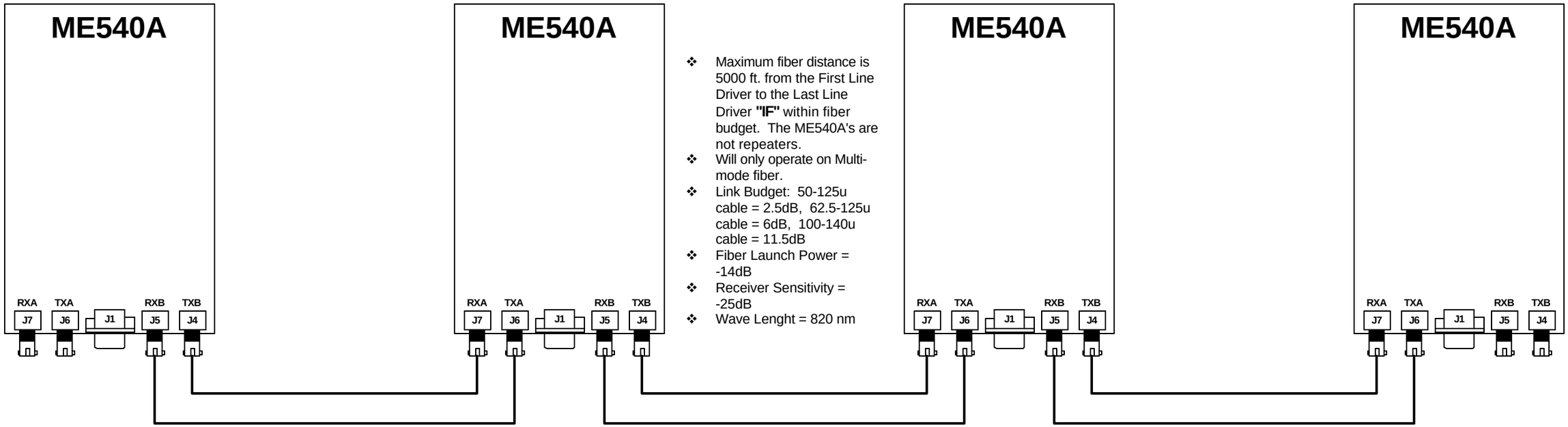
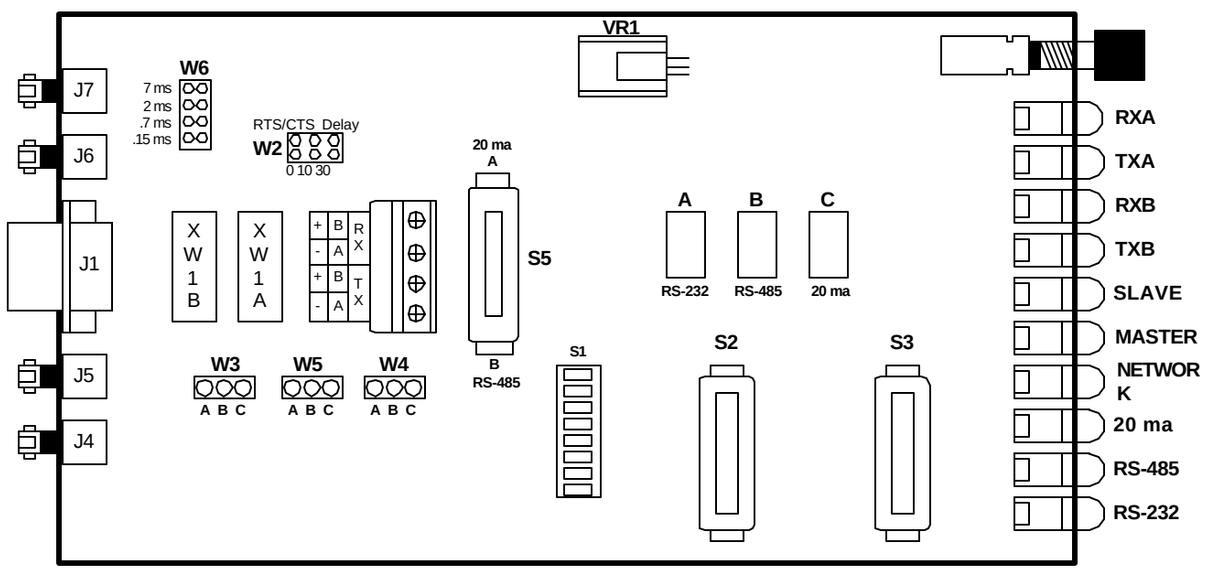


- Maximum fiber distance is 5000 ft. from the First Line Driver to the Last Line Driver **"IF"** within fiber budget. The ME540A's are not repeaters.
- Will only operate on Multi-mode fiber.
- Link Budget: 50-125u cable = 2.5dB, 62.5-125u cable = 6dB, 100-140u cable = 11.5dB
- Fiber Launch Power = -14dB
- Receiver Sensitivity = -25dB
- Wave Lenght = 820 nm

ME540A IN NETWORK MODE

- In Network Mode, all of the devices look the same. There are no Masters or Slaves.
- Data flow is half-duplex ONLY.
- All devices see all the data on the network.
- Data sent to the transmitter (TX) of any of the interfaces, is passed out to both optical transmitters (TX).
- Data received from either optical receiver(RX) is passed through to the opposite optical port's transmitter(TX), to the receiver(RX) of the RS-232, RS-485 or 20 ma port.

NOTE:
There is no collision detection



- Set S1, position 1, to OFF (0) for Network Mode.
- There are no Masters or Slaves.
- Set the shunt jumper for what interface you will be connecting to. A = RS-232, B = RS=485, C = 20 ma
- **For RS-232:**
  Set DCE/DTE shunt jumper opposite of the device that you are connected to.
  In DCE mode, and jumper W3 in the A-B position, enables DTR (DTR controls CTS)
  In DCE mode, and jumper W3 in the B-C position, enables RTS (RTS controls CTS)
  In DTE mode, jumper W3 has "NO" effect
  Jumper W2 sets the delay of CTS assertion with the raising of DTR or RTS. 0 means there will be no delay. 10 gives you a 10 ms delay, and 30 is a 30 ms delay.
- **For RS-485:**
  Set W4 and W5 for either 2-Wire or 4-Wire operation. (A-B) = 4-Wire (B-C) = 2-Wire.
  Set S5 in the "B" position If operating in 2-wire mode; set W6 for the time that the driver remains enabled after the TX of the last data bit.
  Set S1, position 3,4,5 and 6 for the appropiate biasing. OFF=No Bias and ON=Biased. In most RS-485 applications, you would bias your RX (S1, positions 5 and 6) ON or closed.
- **For 20 ma:**
  Set S2 and S3 for either Active or Passive TX/RX. S2 Position A = Active RX, position B = Passive RX. S3 position A = Active TX, B = Passive TX.
  Set S5 in the "A" position