ME540A IN A POINT-to-POINT APPLICATION

ME540A

TXB J4
RXB J5
TXA J6
RXA J7

❖ Maximum fiber distance is 5000 ft. **"IF"** within fiber budget.
❖ 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 length is 820 nm

ME540A

J7 RXA
J6 TXA
J5 RXB
J4 TXB
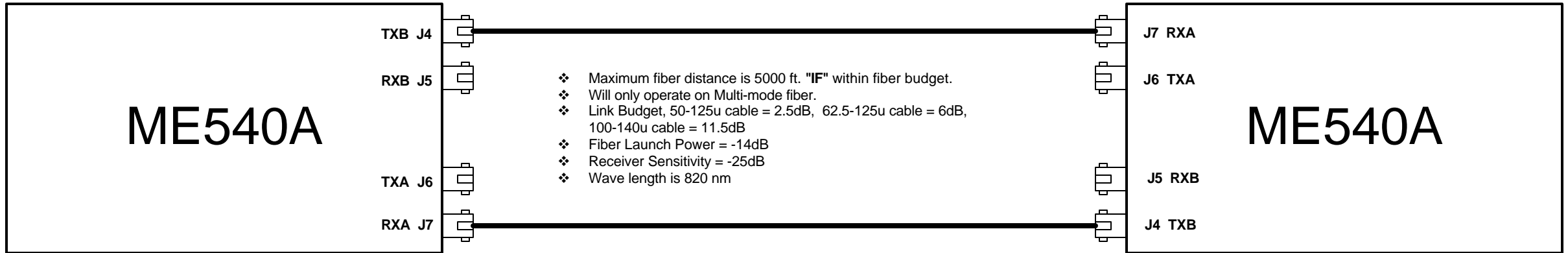
❖ In most point-to-point applications, S1, position 1 will be set for Master/Slave mode on.
❖ Both units **MUST** be configured as masters. (S1, position 2 set for 0 or Off)
❖ For Point-to-Point application, always use the two outer fiber connectors. J4 and J7
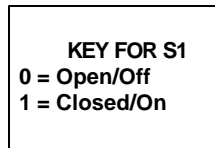
❖ Set S1, position 1 to ON (1) for Master/Slave Mode.
❖ Set the shunt jumper for what interface you will be connecting to. A = RS-232,   B = RS-485,   C = 20 ma

KEY FOR S1
0 = Open/Off
1 = Closed/On

❖ **For RS-232:**
  Set DTE/DCE shunt jumper opposite of the device you are connecting 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, 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 S5 in the "B" position.
  Set W4 and W5 for either 2-Wire or 4-Wire operation: (A-B) = 4-Wire   (B-C) = 2-Wire.
  If operating in the 2-Wire mode; set W6 for the time that the driver remains enabled after the TX of the last data bit.
  Set S1, positions 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 and B = Passive TX.
  Set S5 in the "A" position.