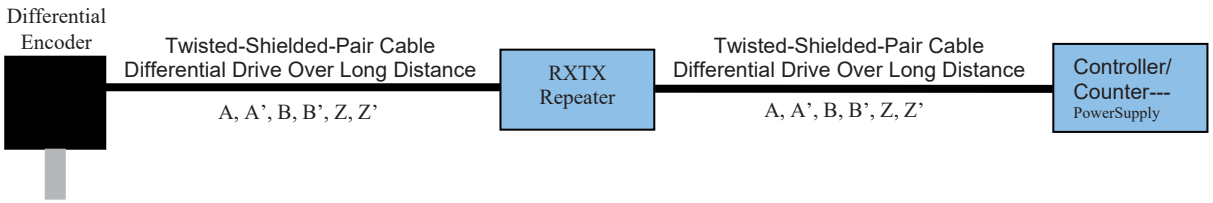
Technical Bulletin 516

RXTX - Differential Encoder to Differential Receiver



Applications Guide

The illustration above utilizes one RXTX Repeater to "repeat" the encoder's complimentary-differential signals for purpose of boosting the signal drive capacity, removing noise and distortion from the signals, and transmitting the signals over longer distances.

Note: Refer to the RXTX Repeater connection diagram for the correct signal, power, and shield wiring to the terminals.

Suggestions:

a) Ensure that RXTX Repeater signals at the Controller/Counter are properly terminated (refer to Tech Bulletin TB116 for information on proper termination). The RXTX Repeater is already designed to properly terminate the encoder signals.

b) Whenever transmitting encoder signals a long distance, use LOW CAPACITANCE, TWISTED-SHIELDED PAIR CABLE.

c) Terminate cable shields/drain wires to the 0V Terminal.