## **RXTX Repeater – Differential** Encoder to Differential Receiver



Encoder	Twisted-Shielded-Pair Cable Differential Drive Over Long Distance	RXTX Repeater	Twisted-Shielded-Pair Cable Differential Drive Over Long Distance A, A', B, B', Z, Z'	Controller/ Counter
	A, A', B, B', Z, Z'		Α, Α , Β, Β , Ζ, Ζ	PowerSupply
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	n for the correc	et signal, power, and shield wiring to	the terminals.
Suggestions:				
			e properly terminated (refer to Tech E already designed to properly terminat	
b) Whenever tra CABLE.	nsmitting encoder signals a long dist	ance, use LOV	V CAPACITANCE, TWISTED-SHIE	ELDED PAIR
c) Terminate cal	ble shields/drain wires to the 0V Terr	minal.		
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