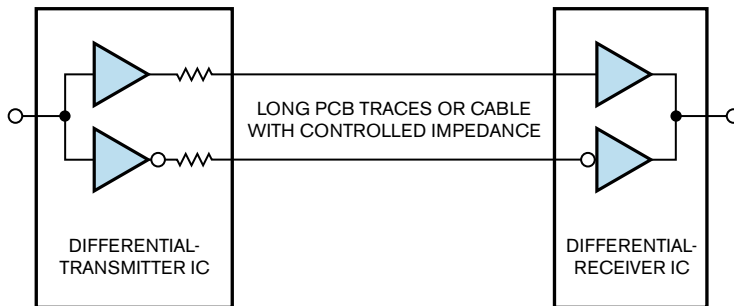


(a)



(b)

**Figure 4** Differential signaling uses a pair of wires operating on opposite polarities. You can use a  $100\Omega$  shunt termination at the receiver or two  $50\Omega$  terminations in series to eliminate reflections (a). The series termination does not dissipate dc power (b). Differential signaling is the basis for LVDS, USB, SCSI, SATA, PCIe, CameraLink, and many other interfaces. The transmitter does not start and stop its operating current; it just switches it between the two wires, making decoupling the power pins less critical.