

General EIA-422 Cable Information

This section applies to Digi products equipped with EIA-422 asynchronous interfaces.

Physical Cable Characteristics

EIA-422 interface cables should be shielded twisted-pair cables. Each signal requires two leads (one twisted pair of wires) to complete a balanced voltage digital circuit. The shield should be connected to the Chassis Ground of the devices at *both* ends of the interface cable.

EIA-422 Interface Signaling

The EIA-422 interface provides four signals: Transmitted Data (TxD), Received Data (RxD), Request To Send (RTS) and Clear To Send (CTS). The functions of these signals are identical to their EIA-232 counterparts.

EIA-422 Grounding Requirements

EIA-422 interface cables must provide a ground path between the devices to be connected. This ensures the integrity of data transfers and control signals. This should be connected to the Chassis Ground of each device. Digi recommends using the cable shield for this purpose.