

Building Custom Cables for Control™ Hostess® and Hostess 550 Controllers (4- and 8-Port) Current Loop

Compatibility

Use this document if you want to build customized cables for the following Control controllers:

- Hostess (4- or 8-port models; 100-pin)
- Hostess 550 (4- or 8-port models; 100-pin)
- Hostess/MC or Hostess 550/MC (4- or 8-port models)

Note: *If you want to build cables for other Control controllers, order the appropriate cabling documentation.*

Building Cables

Usually you can buy the correct cables from distributors and electronics stores for your controller. In some cases, your peripheral equipment may need custom cables.

Check your equipment to understand what kind of cable to use, Data Terminal Equipment (DTE) or Data Communications Equipment (DCE). All Control serial connectors are configured as DTE.

Shielding Cables

The controller falls within the limits for a Class A computing device established by the FCC. To comply with these limits, the serial cables used to connect the controller to external devices should be shielded. The shield should be connected to a metal or metallized connector shroud on each end of the cable. It is not necessary to connect the shield to a connector pin on the end of the cable connected to the controller.

Current Loop

The following figure shows a current loop communications cable. The top two wires connect the active transmitter to a remote passive receiver. The bottom two wires connect the passive receiver to a remote active transmitter.

Controller Connector

Signal Name	DB25 Pins	Remote Connector
RxD-	25	RxD-
RxD+	18	RxD+
TxD-	11	TxD-
TxD+	9	TxD+