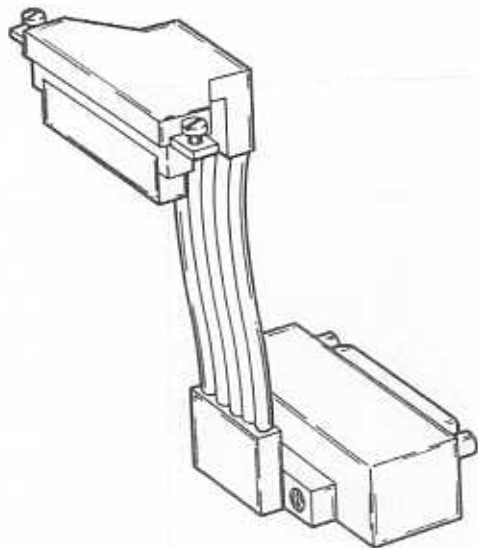


THE INTERNAL CABLE

The internal cable, pictured in Figure 12, is supplied with the PC3XX-AA Real-Time Interface Module. It allows connection to the module through a 62-pin connector at the rear of the Professional 350 chassis. This cable provides direct access to J1 of the Real-Time Interface Module. The signals associated with each pin of the internal cable are illustrated in Figure 13. The external receptacle is AMP P/N 211070-01, and the contacts are AMP P/N 66556-04.

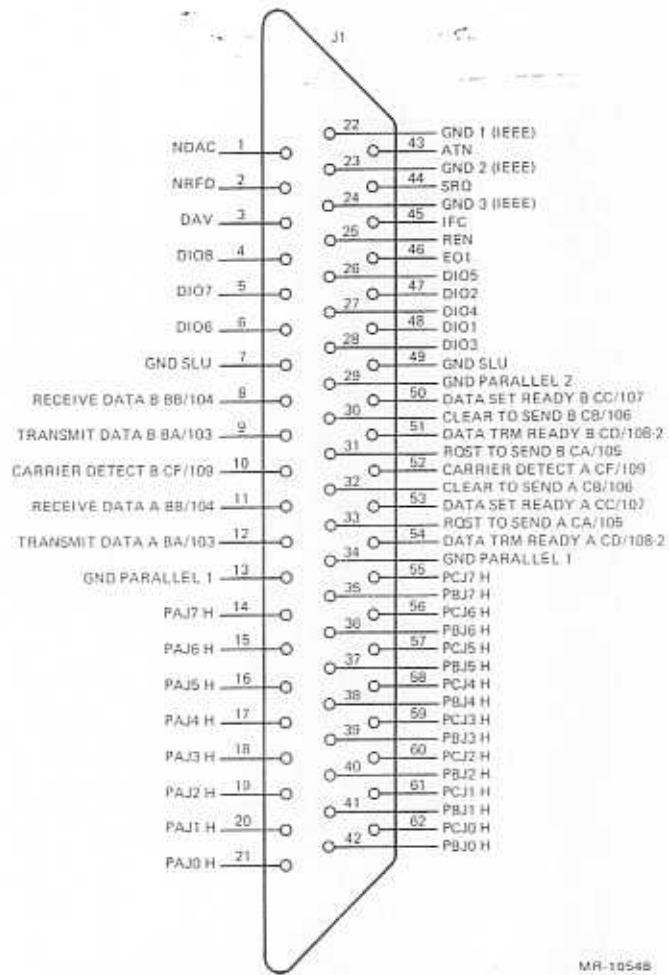


MR-10705

Figure 12
Internal Cable

PC3XX-AB EXTERNAL CABLE FOR USE OF ALL INTERFACES

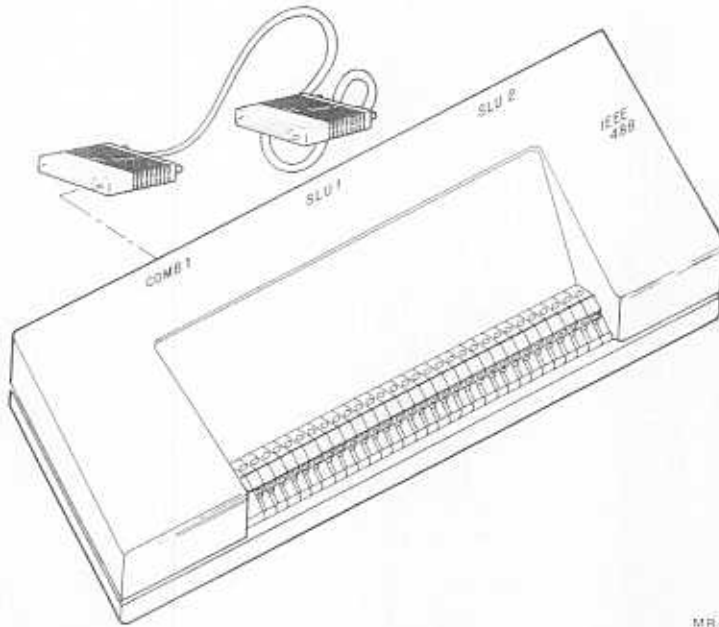
The PC3XX-AB cable, pictured in Figure 14, provides simultaneous use of all three interfaces on the PC3XX-AA module. The cable is 1 meter (3 feet) long and terminates on one end with a 62-pin female connector for connection to the internal cable connector. The other end of the cable terminates in a connector pod containing connectors for all three interfaces on the PC3XX-AA module. Two serial line connectors, one IEEE-488 standard connector, and a push-pin connector strip for access to the programmable parallel port are provided. The serial line unit connectors accept standard 25-pin female connectors. The signals carried along each pin of the serial line connectors are illustrated in Figure 15. The IEEE-488 bus receptacle accepts a standard 24-pin plug for IEEE-488 bus operation. The signals carried along each pin in this connector are illustrated in Figure 16. The push-pin connector strip allows direct access to the bits of the programmable



MR-10548

Figure 13
Pin Signals on Internal Cable

parallel interface. Each push-pin is labeled with the name of the bit it represents. For example, access to bit 0 of port A of the programmable port is obtained by connecting a wire to the push-pin labeled PA0. Bit 7 of port C is labeled PC7. Signals along these push-pin connections have direct control over the bits in the programmable port registers on the module. (See Chapter 3).

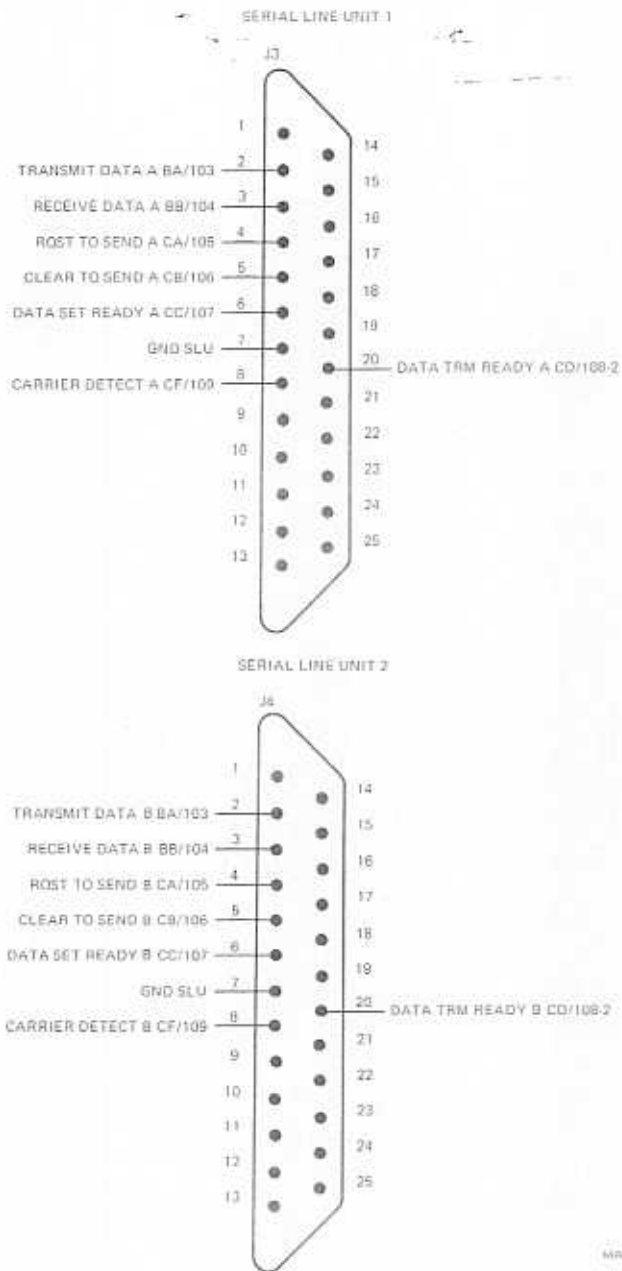


MR-10728

Figure 14
PC3XX-AB Cable and Connector Pod

BCC10-03 EXTERNAL CABLE FOR USE OF SERIAL LINE UNITS

The BCC10-03 cable, pictured in Figure 17, contains one 62-pin connector for connection to the internal cable connector at the rear of the PC350 chassis. The cable splits into two subsequent cables, each of which terminates in a 25-pin subminiature D male connector. The connectors are labeled Serial Line Unit 1 and Serial Line Unit 2 to indicate the serial line unit ports with which they connect. The signals carried on each pin of these connectors are illustrated in Figure 15. When making connection to the serial line units, consideration should be given to the type of signals generated by the external device. Refer to Chapter 3 for more information about connecting serial devices.



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Figure 15
Pin Signals on Serial Line Unit Connectors

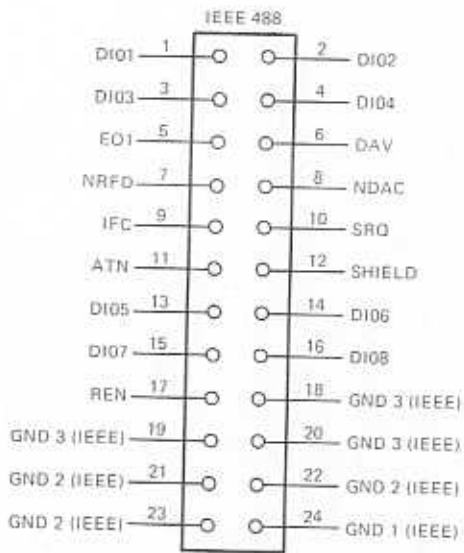


Figure 16
Pin Signals on IEEE-488 Bus Connector

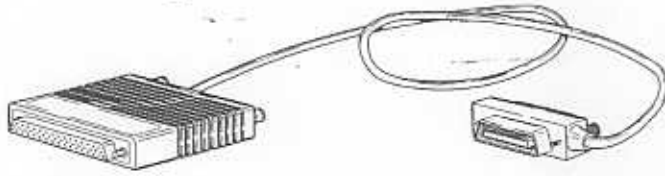


Figure 17
BCC10-03 Cable for Serial Line Unit Connections

MR-10702

BCC11-03 EXTERNAL CABLE FOR USE OF IEEE-488 DEVICES

The BCC11-03 cable, pictured in Figure 18, provides connection to the IEEE-488 bus interface. The cable connects to the 62-pin connector at the rear of the Professional350 computer chassis and provides a single IEEE-488 bus connector at the other end. Since the IEEE-488 standard is quite strict in regard to signal definitions, any device that conforms to the IEEE-488 standard can be connected to this cable. The signals associated with each pin of the connector are shown in Figure 16.



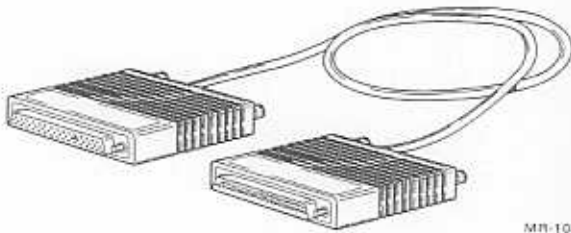
MR-10704

Figure 18
BCC11-03 Cable for IEEE-488 Devices

It should be remembered that the IEEE-488 standard recommends a maximum cable length of 4 meters (12 feet). Since the BCC11-03 is approximately 1 meter (3 feet) long, any extension cables connected to the BCC11-03 should not exceed 3 meters (9 feet).

BCC12-03 EXTERNAL CABLE FOR USE OF THE PARALLEL PORT

The BCC12-03 cable, pictured in Figure 19, allows use of the programmable parallel port only. It is designed for quick connection and disconnection of external devices and requires the construction of a female connector cable to the external device. The BCC12 cable connects to the 62-pin connector at the rear of the Professional 350 and terminates in a 37-pin subminiature D connector. Because of the versatile nature of the programmable port, some consideration should be given to the type of signals generated by the external device. A 37-pin female connector should be created that carries the signals from the external device to the BCC12. Note that only 29 of the pins carry signals.



MR-10703

Figure 19
BCC12-03 Cable for Use of Parallel Interface

Figure 20 shows the signals associated with each pin of the BCC12 subminiature D connector. When designing a female connector, match the signals generated by the external device to the pins on the BCC12 connector.



MR-10699

Figure 20
Pin Signals on 37-Pin Parallel I/O Connector
(BCC12 Cable Only)