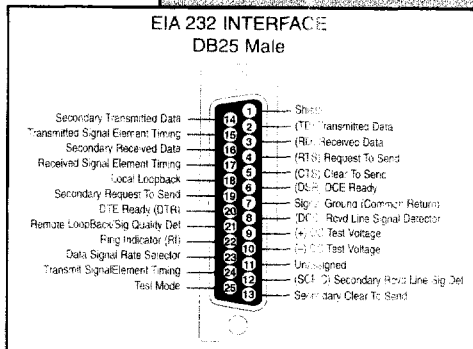**Data Cabling**

Serial Communication and the EIA232C Standard - What Does It Mean?

Serial communication is the transmission of signals over a single line or channel. It can be visualized as a line of data bits transmitted in sequence, one after another. Serial transmission is usually used to transmit data between a computer and computer peripheral. Almost all P.C.s today have at least one serial port to connect it to other devices such as modems, plotters, etc.

The most common serial interface standard is RS232C or EIA232C established by the Electronic Industries Association (EIA). This standard specifies transmission at a signal rate of 20 Kbps or less with a maximum distance of 15 meters. EIA232C ports on PCs use either DB9 or DB25 male connectors with female hardware.
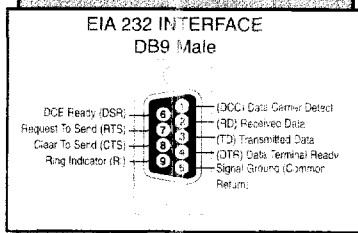
The biggest shortcoming of the EIA232C standard was its limited transmission distance and speed. EIA next introduced the EIA449/422/423 standard to increase these parameters. EIA449 defines the mechanical characteristics, whereas EIA422 and 423 specify the electrical interface. EIA449 utilizes cable terminated with 37 pin D-subminiature connectors.
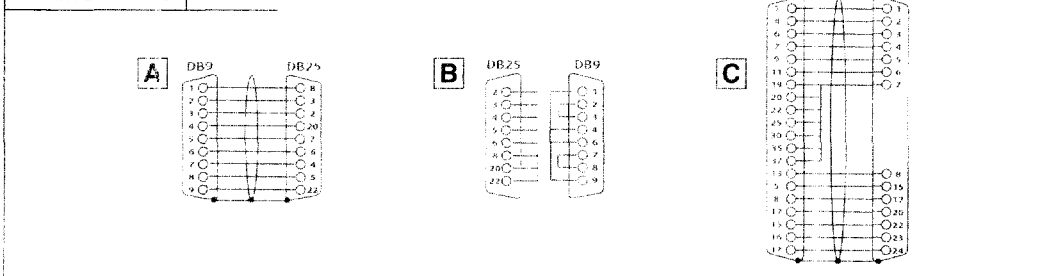
EIA 232 INTERFACE DB25 Male

DB25-DB9 Serial Port Adaptors and Cables - Change From 9 to 25 and Vice Versa

Does your P.C. have a DB9 serial port while your modem has a DB25? These handy adaptors and cables can solve your interface problem. All are 100% shielded for applications where noise is abundant. Cables and high profile adaptors have removable hex nuts to mate with P.C. ports having reverse hardware or peripherals with standard hardware. Low profile adaptor comes with permanently mounted hex standoffs on DB9 side. Color: Beige.

MODEL	DESCRIPTION	WIRING	GENDER	1-9	10-24	25-99
CMZ6-IBM	AT Modem Cable, 6 ft.	A	DB25(M) to DB9(F)	7.95	7.31	6.68
CMZ10-IBM	AT Modem Cable, 10 ft.	A	DB25(M) to DB9(F)	9.65	8.88	8.11
DG259FM-IBM	AT Adaptor, High Profile	A	DB25(F) to DB9(M)	10.95	10.07	9.20
DG259MF-IBM	AT Adaptor, High Profile	A	DB25(M) to DB9(F)	10.95	10.07	9.20
DGL259MF-IBM	AT Adaptor, Low Profile	A	DB25(M) to DB9(F)	10.95	10.07	9.20
DGL259FF-IBM	AT Adaptor, Low Profile	A	DB25(F) to DB9 (F)	10.95	10.07	9.20

EIA 232 INTERFACE DB9 Male

WIRING LEGEND

Slimline DB9 to DB25 Adaptors - Ideal Choice For Use With AT Modem or Mouse

MODEL	DESCRIPTION	WIRING	GENDER	1-9	10-24	25-99
DMA010MF	Serial Port Adaptor	A	DB9(M)/DB25(F)	5.95	5.36	4.76
DMA010FM	Serial Port Adaptor	A	DB9(F)/DB25(M)	5.95	5.36	4.76

DB25F and DB9F Slimline Gender Changers - Reverse Gender of Your Serial Port

This is probably the most handy device that you can keep in your toolbox or desk drawer. Use these gender changers to mate two cables that terminate to male connectors. Better yet remove one set of hex nuts and the adaptor can be screwed into your male DB25/DB9 serial port for a permanent gender changer! Keep some on hand for quick repairs. See page 107 for additional details.

MODEL	DESCRIPTION		GENDER	1-9	10-24	25-99
DGB25F	DB25 Gender Changer	—	Female / Female	6.95	6.26	5.56
DGB9F	DB9 Gender Changer	—	Female / Female	4.95	4.46	3.96

EIA449 to EIA232 Adaptor - Resolves Interface Problems Between DB37 and DB25

Provides a low cost, efficient way to adapt EIA449 datacom equipment (DCE) to EIA232 data terminal equipment (DTE). The EIA449 port is a DB37 male connection, the EIA232 port is a DB25 female. The adaptor is optimized for EIA423 unbalanced electrical signals. Features low profile and has all molded, shielded construction.

MODEL	DESCRIPTION	WIRING	GENDER	1-9	10-24	25-99
DMB134	EIA449/232 Adaptor	C	DB37(M) - DB25(F)	15.95	14.67	13.40

DB37 Gender Changers - Molded and Shielded, Solves Mismatching Problems

Similar in construction to the DMB134 described above. Low profile; a handy gender changer to have in your service kit. The only answer to your mismatched DB37 field cable problems.

MODEL	DESCRIPTION		GENDER	1-9	10-24	25-99
DMB135M	DB37 Gender Changer	—	Male - Male	14.95	13.75	12.56
DMB135F	DB37 Gender Changer	—	Female - Female	14.95	13.75	12.56

Serial Loopback Tester - Creates Handshaking for DB25 or DB9 Serial Ports
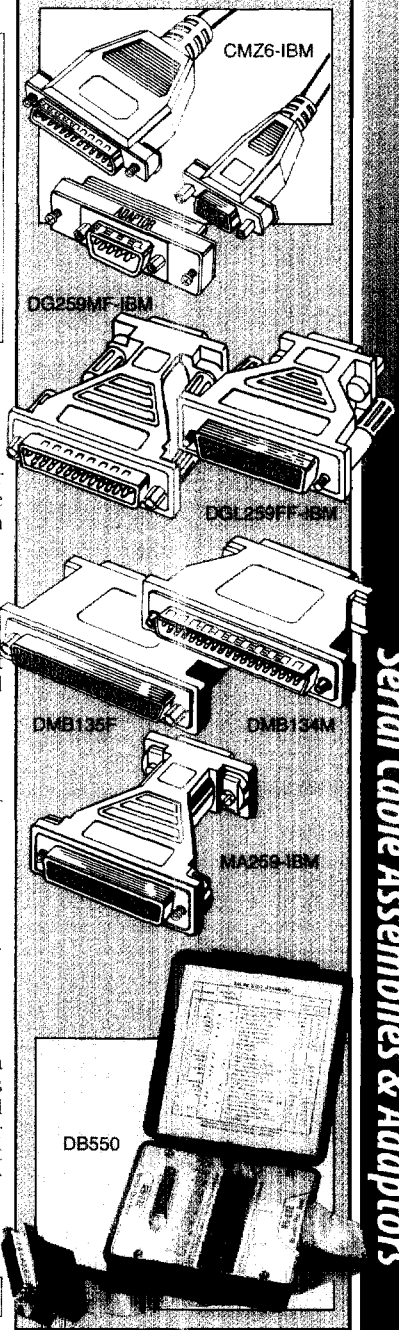
This handy loopback tester comes complete with DB9 and DB25 female connectors to interface with any P.C. serial port. Useful for diagnosing problems with serial interfaces.

MODEL	DESCRIPTION	WIRING	GENDER	1-9	10-24	25-99
MA259-IBM	Serial Loopback Tester	B	Female / Female	9.95	9.15	8.36

EIA232 Breakout Box - 2-Color LEDs Monitor 10 Signals of the EIA232 Interface

This extremely portable test set provides access to all 25 conductors of the EIA232 interface between the data terminals and modem. Ten red/green LEDs monitor both High (red/positive) or Low (green/negative) signals (lines 2 thru 6, 8, 15, 17, 20 and 24) and two additional LEDs as spares. Gives you complete breakout and reconfiguration capability using 24 in-line switches. Pin jacks on each side of the switch accept small jumper cables (20 provided) to allow cross-patching and monitoring of signals. Frame ground or Pin 1 are not switched. No extra power required. Size: 3.25" x 3.5" x 1". One female DB25 mounted on panel and one male on a short ribbon cable. Full instructions provided on box.

MODEL	DESCRIPTION		GENDER	1-9	10-24	25-99
DB550	EIA232 Breakout/Monitor		Male / Female	34.95	32.15	29.36

CMZ6-IBM

DG259MF-IBM

DGL259FF-IBM

DMB135F   DMB134M

MA259-IBM

DB550

Serial Cable Assemblies & Adaptors

Order Toll Free: 800-343-1455
Web: http://www.L-com.com
8am - 6pm EASTERN STANDARD TIME

L-com
N. ANDOVER, MA 01845

24 Hour Fax Service: 978-689-9484
E-mail: sales@L-com.com
PRICES AND SPECIFICATIONS SUBJECT TO CHANGE.