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Interface Cables for HP Graphics Plotters and Personal Printers

TECHNICAL DATA, MARCH 1985

HEWLETT PACKARD

hp museum

Most HP plotters are not shipped with an interface cable. Hewlett-Packard graphics plotters (HP 7470A, 7475A, 7550A), drafting plotters (HP 7580B, 7585B, 7586B), and personal printers (HP Laserjet, HP Thinkjet) can be used with a variety of HP and non-HP personal computers and computer systems. However, because different configurations often require different interface cables, customers must order the appropriate cable separately.

To find the proper cable to connect your plotter or printer to your personal computer, check the table below. To determine the proper cable for other configurations (such as connecting your plotter or printer to a mainframe computer terminal), consult the tables on Page 2. Cable schematics appear on Page 3. For ordering information, see Page 4.

Standalone Configurations:

In a standalone configuration, the plotter/printer is connected to its own dedicated computer port. This setup is primarily for personal computers in workstation environments, but also includes peripherals on their own computer port in mainframe environments.

Note: Cables from non-HP computer manufacturers are listed for information purposes only. Check with the manufacturer for current model numbers and prices.

Printer/Plotter to Personal Computer, Standalone (RS-232-C)

Computer System	HP Laserjet HP Thinkjet	HP 7470A, 7475A, 7580B, 7585B, 7586B	HP 7550A
HP Series 150, TI Pro, Wang PC	HP 13242G	HP 13242G	HP 17255D
The HP PORTABLE	HP 92221P	HP 92221P	HP 92221P and HP 17355F*
IBM PC and PC/XT, Compaq, AT&T PC 6300	HP 17255D	HP 17255D	HP 17255F
IBM AT	HP 17255D and IBM 6450242 Serial Adapter Cable	HP 17255D and IBM 6450242 Serial Adapter Cable	HP 17255F and IBM 6450242 Serial Adapter Cable
IBM PC*jr*	HP 17255D and IBM Serial Device Adapter Cable	HP 17255D and IBM Serial Device Adapter Cable	HP 17255F and IBM Serial Device Adapter Cable
Apple IIe, DEC Rainbow, Osborne	HP 17355M	HP 17355M	HP 17355D
Apple *III*	HP 17355M** and Apple A3M0019	HP 17355M** and Apple A3M0019	HP 17355D and Apple A3M0019
Apple IIc	Apple A9C0308	Apple A9C0308	HP 17355F* and Apple A9C0308

*If the combination of these two cables (over 4 m) is too long, order HP 92222F instead of HP 17355F; second cable is still necessary.

**If the combination of these two cables (over 3 m) is too long, order HP 92222M instead of HP 17355M; the Apple A3M0019 is still necessary.

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Printer/Plotter to Personal Computer (HP-IB/IEEE-488)		
Computer System	**HP Thinkjet**	**HP 7470A, 7475A, 7550A, 7580B, 7585B, 7586B**
HP Series 80, HP Series 150, HP 9000 Series 200, 500	HP 45529A/B or HP 10833A/B or HP 31389A/B	

Printer to Mainframe, Standalone (RS-232-C)	
Computer System	**HP Laserjet only**
HP 3000 Series 37 ATP	HP 92218D

Plotter to Mainframe, Standalone (RS-422-A)	
Computer System	**HP 7550A only**
HP 3000 Series 64, 39, 42, 48	HP 17855A

Plotter to Calculator/Handheld Computer (HP-IL)	
Computer System	**HP 7470A only**
HP Series 40 Calculator HP Series 70 Handheld Computer	HP 82167A

Eavesdrop Configurations:

In an eavesdrop configuration, the plotter is situated between a mainframe computer (i.e., HP 3000, IBM 360/370, DEC VAX) and a terminal or a personal computer being used as a terminal. Both the terminal and plotter share the same RS-232-C port from the mainframe computer.

To use an HP 7550A, 7580B, 7585B, or 7586B in eavesdrop mode, the only additional cable required in most configurations is the one from the plotter to the mainframe computer. These plotters have two RS-232-C ports, so the terminal to mainframe computer cable is used with the second RS-232-C port on the plotter.

When connecting an HP 7470A or 7475A in eavesdrop mode, a special eavesdrop cable (HP 17455A) is required in addition to the cable from the plotter to the mainframe computer.

Eavesdrop Configuration (RS-232-C)			
Computer System	**HP 7470A, 7475A**	**HP 7580B, 7585B, 7586B**	**HP 7550A**
HP Series 150 (in terminal mode)	HP 17455A and HP 13242N	HP 17355M or HP 13242N	HP 17355M or HP 13242N
HP 3000	HP 17455A and cable from computer	HP 17355M or HP 13242N	Cable from computer

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Cable Schematics

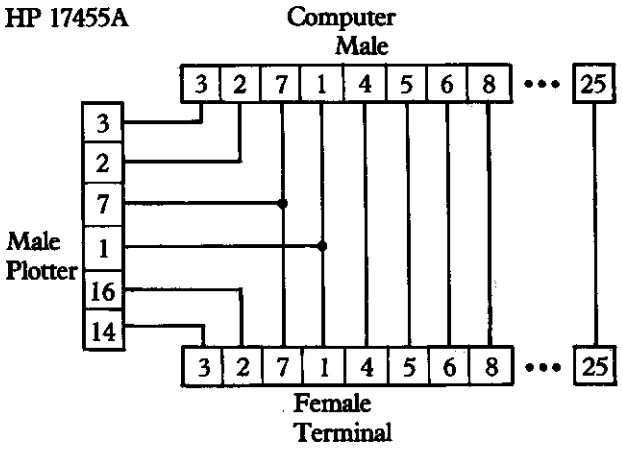
Connector Types

Part numbers ending in M, F, or D follow this convention:

M = Male to Male
F = Female to Female
D = Male to Female

Y-Cable for Eavesdrop Connection

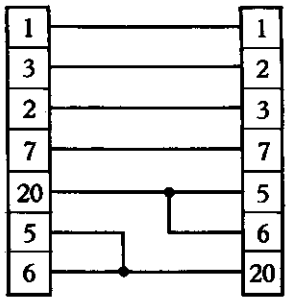
HP 17455A



Pins 4, 5, 6, and 8 through 25 are directly connected between the computer and terminal connectors.

Modem Eliminator Type

HP 17255D/F
HP 13242G*
Length: 1 meter



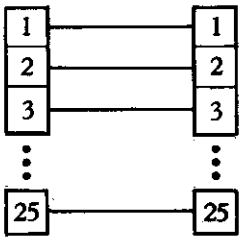
Pins not shown are not used.

**Other pins are connected in this cable but they do not affect plotter usage. (The HP 13242G uses male-to-male connectors.)*

Straight Through

HP 17355M/F/D*
Length: 1 meter

Pin Out



Pins 1–25 are directly connected.

**Cables HP 92222F/M are of the same pin configuration as HP 17355F/M, but are only 8 inches long. (There is no HP 92222D.)*

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Ordering Information

RS-232-C/CCITT V.24 Cables		HP-IB (IEEE-488) Cables
HP 13242G	HP 17355M	HP 10833A
HP 13242N	HP 17455A	HP 10833B
HP 17255D	HP 92218D	HP 31389A
HP 17255F	HP 92221P	HP 31389B
HP 17355D	HP 92222F	HP 45529A
HP 17355F	HP 92222M	HP 45529B

RS-422-A Cable	HP-IL Cable
HP 17855A	HP 82167A

Cables are available from your local dealer or HP Sales Representative. To order cables or to obtain a copy of HP's *Computer Users Catalog* (5953-2450), which includes a complete listing of Hewlett-Packard supplies and accessories, call one of HP's Direct Order telephone numbers:

United States	800-538-8787
California	408-738-4133
United Kingdom	0734-792868
	0734-792959
France	(6) 928 32 64
Belgium/Luxembourg	(02) 762 32 00
Switzerland	(057) 31 22 54
	or 31 22 59
West Germany	07031-142829
	07031-223133
The Netherlands	020-470639
South Africa	802-5111
	53-7954
	28-4178
Canada	
Toronto Local	416-671-8383
Ontario	1-800-268-6982
Quebec	1-800-387-3417
British Columbia	112-800-387-3154
Other Provinces	1-800-387-3154
Sweden	08-7502027
	08-7502028
Australia	(03) 895-2645
	or 895-2615
	(02) 888-7712
	or 887-1611

Apple IIc, IIe, and /// are products of Apple Computer, Inc. AT&T PC 6300 is a product of AT&T Information Systems, Inc. Compaq is a product of Compaq Computer Corp. DEC Rainbow and VAX are products of Digital Equipment Corp. IBM PC, XT, AT, and PC*jr* are products of International Business Machines Corp. Osborne is a product of Osborne Computer Corp. TI Pro is a product of Texas Instruments. Wang PC is a product of Wang Laboratories, Inc.

For more information, call your local HP sales office listed in the telephone directory white pages. Ask for a Personal Computer Representative. Or write to Hewlett-Packard: **U.S.A.** — P.O. Box 10301, Palo Alto, CA 94303-0890. **Europe** - P.O. Box 999, 1180 AZ Amstelveen, The Netherlands. **Canada** — 6877 Goreway Drive, Mississauga, L4V 1M8, Ontario. **Japan** — Yokogawa-Hewlett-Packard Ltd., 3-29-21, Takaido-Higashi, Suginami-ku, Tokyo 168. **Elsewhere** in the world, write to Hewlett-Packard Intercontinental, 3495 Deer Creek Road, Palo Alto, CA 94304.

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