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## **DB25 DCE Cable Examples**

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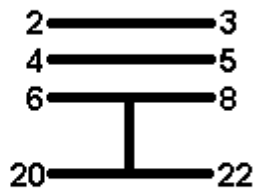
The following are examples of cable configurations for connecting terminals, printers and modems to DB25 DCE (Female) connectors.

### **DB25 DCE Port pinout**

<b>Pin</b>	<b>Circuit</b>	<b>Function</b>
1	Chassis	
2	RXD	Receive Data
3	TXD	Transmit Data
4	RTS	Request To Send
5	CTS	Clear To Send
6	DSR	Data Set Ready
7	GND	Ground
8	DCD	Data Carrier Detect
20	DTR	Data Terminal Ready
22	RI	Ring Indicator

### **Loopback connector**

For use with Specialix diagnostic utilities.



**DB25 to DB25 Terminal cable configuration**

For standard terminal operating at slow speeds or using software flow control. A simple 3-wire connection can be used.

<b>DB25</b>				<b>DB25 Terminal</b>	
RXD	2	-----	2	TXD	
TXD	3	-----	3	RXD	
GND	7	-----	7	GND	

**DB25 to DB25 terminal with hardware flow control**

For terminals operating at speeds high than 19200 baud or for terminals which do not support software flow control.

<b>DB25</b>				<b>DB25 Terminal</b>	
RXD	2	-----	2	TXD	
TXD	3	-----	3	RXD	
RTS	4	-----	20	DTR	
CTS	5	-----	5	CTS	
GND	7	-----	7	GND	

**DB25 to DB25 terminal using the modem device**

Using the modem device on a local connection ensures that the login process is killed when the terminal is switched off. This is achieved by wiring the terminals RTS or DTR to the DB25 DCD.

<b>DB25</b>				<b>DB25 Terminal</b>	
RXD	2	-----	2	TXD	
TXD	3	-----	3	RXD	
GND	7	-----	7	GND	
DCD	8	-----	20	DTR or 4 RTS	

### DB25 to DB25 terminal using the modem device and hardware flow control

Using the modem device on a local connection ensures that the login process is killed when the terminal is switched off. This is achieved by wiring the terminals RTS to the DB25 DCD.

<b>DB25</b>			<b>DB25 Terminal</b>	
RXD	2	-----	2	TXD
TXD	3	-----	3	RXD
RTS	4	-----	20	DTR
GND	7	-----	7	GND
DCD	8	-----	4	RTS

This example assumes that DTR on the terminal is being used for hardware flow control. If RTS is used for hardware flow control connect DTR on the terminal to DCD on the DB25 socket and RTS on the terminal to RTS on the DB25 socket.

### DB25 to DB9 PC Com Port configuration

For standard terminal emulation operating at slow speeds or using software flow control. A simple 3-wire connection can be used.

<b>DB25</b>			<b>DB9 Com Port</b>	
RXD	2	-----	3	TXD
TXD	3	-----	2	RXD
GND	7	-----	5	GND

### DB25 to DB25 modem cable configuration

<b>DB25</b>			<b>DB25 Modem</b>	
RXD	2	-----	3	RXD
TXD	3	-----	2	TXD
RTS	4	-----	5	CTS
CTS	5	-----	4	RTS
DSR	6	-----	20	DTR
GND	7	-----	7	GND
DCD	8	-----	8	DCD
DTR	20	-----	6	DSR

**DB29 to DB9 Modem Cable**

Pinout reported ok.

<b>DB9 Modem</b>	<b>DB25 TA8</b>
3 -----	3 TXD
2 -----	2 RXD
8 -----	4 RTS
7 -----	5 CTS
4 -----	6 DSR
5 -----	7 GND
1 -----	8 DCD
6 -----	20 DTR
9	22 RI Not needed.

**DB25 to DB25 ( DCE ) null modem cable configuration**

<b>DB25</b>			<b>DB25 Modem</b>
RXD	2 -----	3	RXD
TXD	3 -----	2	TXD
RTS	4 -----	5	CTS
CTS	5 -----	4	RTS
DSR	6 -----	20	DTR
DCD	8 -/		
		--- 8	DCD
DTR	20 -----/	6	DSR
GND	7 -----	7	GND

**DB25 to DB25 Serial Printer cable using software flow control**

<b>DB25</b>			<b>DB25 Serial Printer</b>
RXD	2 -----	2	TXD
TXD	3 -----	3	RXD
GND	7 -----	7	GND

**DB25 to DB25 Serial Printer cable using hardware flow control**

This example is for a printer using the DTR pin for hardware flow control.

<b>DB25</b>				<b>DB25 Serial Printer</b>
RXD	2	-----	2	TXD
TXD	3	-----	3	RXD
GND	7	-----	7	GND
RTS	4	-----	20	DTR