Speed LE RJ45 10pin

10Pin	8Pin	Circuit		Function
1		RI	Input	Ring Indicator
2	1	DCD	Input	Data Carrier Detect
3	2	DTR	Output	Data Terminal Ready
4	3	DSR	Input	Data Set Ready
5	4	S/GND		Signal Ground
6	5	TXD	Output	Transmit Data
7	6	RXD	Input	Receive Data
8	7	RTS	Output	Request To Send
9	8	CTS	Input	Clear To Send
10		N/C	-	Not connected

RJ45 8pin Loopback cable

```
DCD    1 __
DTR    2 __|
DSR    3 __|

TXD    5 __
RXD    6 __|

RTS    7 __
CTS    8 __|
```
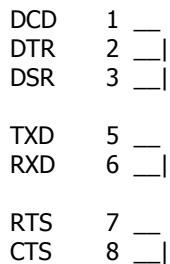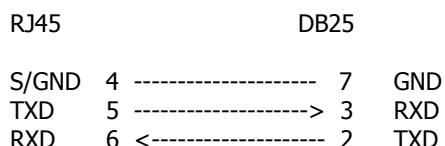
The following pinout examples are based on an 8pin RJ45 connector and can be applied to all Speed RJ45 ports.
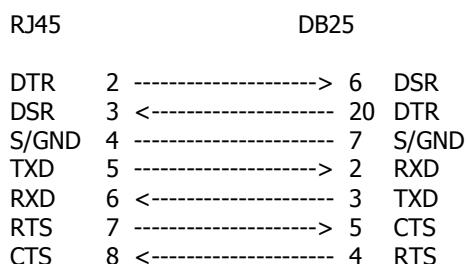
Terminal and Printer connections

RJ45 (8pin) terminal or printer cable configuration

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

```
RJ45                       DB25

S/GND   4 --------------------  7    GND
TXD     5 -------------------> 3    RXD
RXD     6 <-------------------  2    TXD
```

RJ45 (8pin) to DB25 (DTE) terminal or printer cable supporting hardware flow control

```
RJ45                       DB25

DTR     2 ------------------->  6   DSR
DSR     3 <-------------------  20  DTR
S/GND   4 ----------------------  7   S/GND
TXD     5 ------------------->  2   RXD
RXD     6 <-------------------  3   TXD
RTS     7 ------------------->  5   CTS
CTS     8 <-------------------  4   RTS
```

Speed LE RJ45 RS232 port 8pin examples

RJ45 (8pin) to DB25 (DTE) printer cable using DTR flow

```
RJ45                          DB25

DSR    3  <--------------------- 20  DTR
S/GND  4  --------------------- 7   S/GND
TXD    5  --------------------> 2   RXD
RXD    6  <-------------------- 3   TXD
```

RJ45 (8pin) to DB9 (DTE) PC Com Port configuration

```
RJ45                          DB9 Com Port

DTR    2  --------------------> 6   DSR
DSR    3  <-------------------- 4   DTR
S/GND  4  --------------------- 5   S/GND
TXD    5  --------------------> 2   RXD
RXD    6  <-------------------- 3   TXD
RTS    7  --------------------> 8   CTS
CTS    8  <-------------------- 7   RTS
```

Modem connections

RJ45 (8pin) to DB25 (DCE) modem cable

```
RJ45                          DB25 M/F

DCD    1  <-------------------- 8   DCD
DTR    2  --------------------> 20  DTR
DSR    3  <-------------------- 6   DSR
S/GND  4  --------------------- 7   S/GND
TXD    5  --------------------> 3   TXD
RXD    6  <-------------------- 2   RXD
RTS    7  --------------------> 4   RTS
CTS    8  <-------------------- 5   CTS
```

RJ45 (10pin) to DB25 (DCE) modem cable

```
RJ45                          DB25 M/F

RI     1  <-------------------- 22  RI
DCD    2  <-------------------- 8   DCD
DTR    3  --------------------> 20  DTR
DSR    4  <-------------------- 6   DSR
S/GND  5  --------------------- 7   S/GND
TXD    6  --------------------> 3   TXD
RXD    7  <-------------------- 2   RXD
RTS    8  --------------------> 4   RTS
CTS    9  <-------------------- 5   CTS
CTS    8  <-------------------- 7   RTS
```

Speed LE RJ45 RS232 port 8pin examples

RJ45 (8pin) to DB9 (DCE) modem configuration

```
RJ45                              DB9 M/F

DCD      1  <--------------------- 1   DCD
DTR      2  --------------------> 4   DTR
DSR      3  <-------------------- 6   DSR
S/GND    4  ---------------------- 5   S/GND
TXD      5  --------------------> 3   TXD
RXD      6  <-------------------- 2   RXD
RTS      7   --------------------> 7   RTS
CTS      8  <-------------------- 8   CTS
```