

# LAN Pinouts

## Category 5 (UTP) colour coding table

The following table shows the normal color coding for category 3, 5 and 5e cables (4 pair) based on the two standards supported by TIA/EIA

### TIA/EIA 568A Wiring

1		White and Green
2		Green
3		White and Orange
4		Blue
5		White and Blue
6		Orange
7		White and Brown
8		Brown

### TIA/EIA 568B Wiring

1		White and Orange
2		Orange
3		White and Green
4		Blue
5		White and Blue
6		Green
7		White and Brown
8		Brown

## 10base Straight Cable (PC to HUB/SWITCH)

Straight cables are used to connect PCs or other equipment to a HUB or Switch. If your connection is Pc to PC or HUB to HUB you MUST use a [Crossed cable](#).

The following cable description is for the wiring of both ends (RJ45 Male connectors) with the normal [category 5 wiring colors](#).

Pin No.	strand color	Name
1	white and orange	TX+
2	orange	TX-
3	white and green	RX+
4	NC	
5	NC	
6	green	RX-
7	NC	
8	NC	

NC means not connected.

We use **BLUE CABLE** for 10baseT straight cables. NOTE: Almost all our wiring is now done to the 100baseT spec which you can use with 10baseT networks - but NOT the other way around.

## 10baseT Crossed cable (PC to PC or HUB to HUB)

Crossed cables are used to connect PCs to one other PC or to connect a HUB to a HUB. If your connection is PC to HUB you MUST use a [Straight cable](#).

The following description shows the wiring at both ends (male RJ45 connectors) of the crossed cable.

### One end RJ45 Male

1  
2  
3  
6

### Other end RJ45 Male

3  
6  
1  
2

NOTE: Connections not specified are NOT CONNECTED.

## 100baseT Straight Cable (PC to HUB/SWITCH)

Straight cables are used to connect PCs or other equipment to a HUB or Switch. If your connection is PC to PC or HUB to HUB you MUST use a [Crossed cable](#).

The following cable description is for the wiring of BOTH ends (RJ45 Male connectors) with your [category 5 wiring colors](#) (TIA/EIA 568A or 568B).

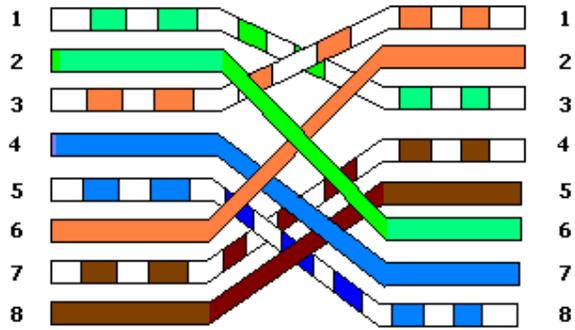
Pin No.	strand color	Name
1	white and orange	TX_D1+
2	orange	TX_D1-
3	white and green	RX_D2+
4	blue	BI_D3+
5	white and blue	BI_D3-
6	green	RX_D2-
7	white and brown	BI_D4+
8	brown	BI_D4-

## 100baseT Crossed cable (PC to PC or HUB to HUB)

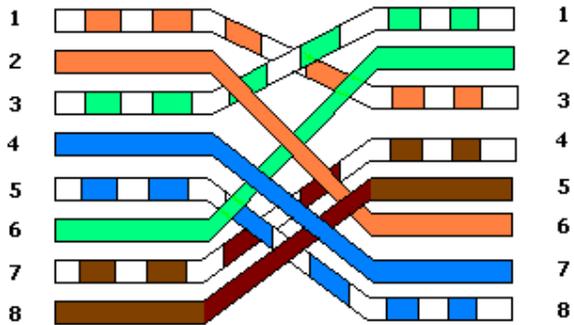
Crossed cables are used to connect PCs to one other PC or to connect a HUB to a HUB. If your connection is PC to HUB you MUST use a [Straight cable](#).

The following description shows the wiring at both ends (male RJ45 connectors) of the crossed cable.

### TIA/EIA 568A Crossed Wiring



### TIA/EIA 568B Crossed Wiring



## RJ45 Connector Pin Numbering

### RJ45 Male Connector

