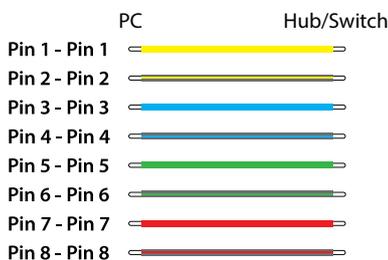


## Question: What is the difference between a patch and a crossover RJ45 cable?

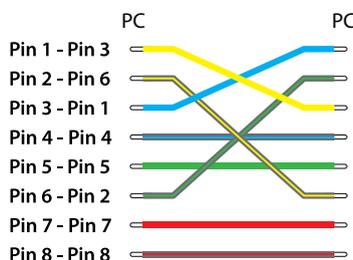
**Answer:** There are two types of Ethernet cables. Patch cables (also known as straight cable) are normally used for connecting computers to hubs or switches. Crossover cables are used to connect two PCs without the use of a hub.

A crossover cable is a segment of cable that crosses over pins 1 & 2 with 3 & 6 which is the Tx and Rx pins in order to have two computers exchange information.

### RJ45 Patch (Straight) Cable



### RJ45 Crossover Cable



At System Q we colour code our network leads so you can always tell which type of cable you're using.

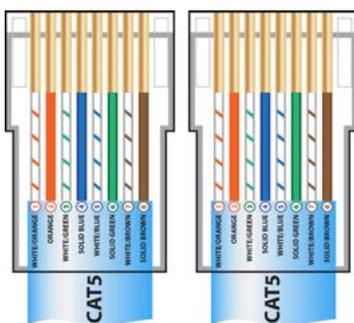


#### Network Patch leads

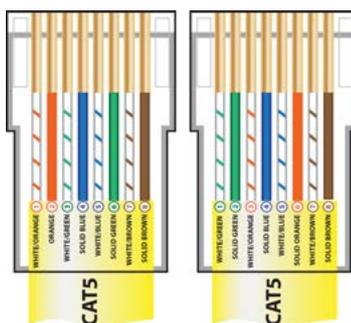
Code	Description
NET982	2m Cable
NET985	5m Cable
NET987	15m Cable

Usually if a cable does not say crossover on it, then it is a patch cable. If you're unsure what type of cable you have you can tell by holding both ends of the cable together. **If the wires are in identical order then it's a patch cable. If pins 1 & 2 have reversed colour with 3 & 6 it is a crossover cable.**

### RJ45 Patch (Straight) Cable



### RJ45 Crossover Cable



#### Network Crossover Leads

Code	Description
NET992	2m Cable
NET995	5m Cable
NET997	15m Cable

It is good practice to colour code your cables. System Q network cables are blue and yellow for patch and crossover cables respectively. Another idea is to label your cables with the **DYMO handheld label printer**. Code: SER107



This CCTV installation tip is aimed at helping you to install CCTV equipment. If you are looking for answers on "how to fit CCTV" or perhaps "how to network a DVR or NVR" or even "how to get CCTV on your mobile phone" why not check out our full range of CCTV installation tips at: [www.systemq.com](http://www.systemq.com)

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