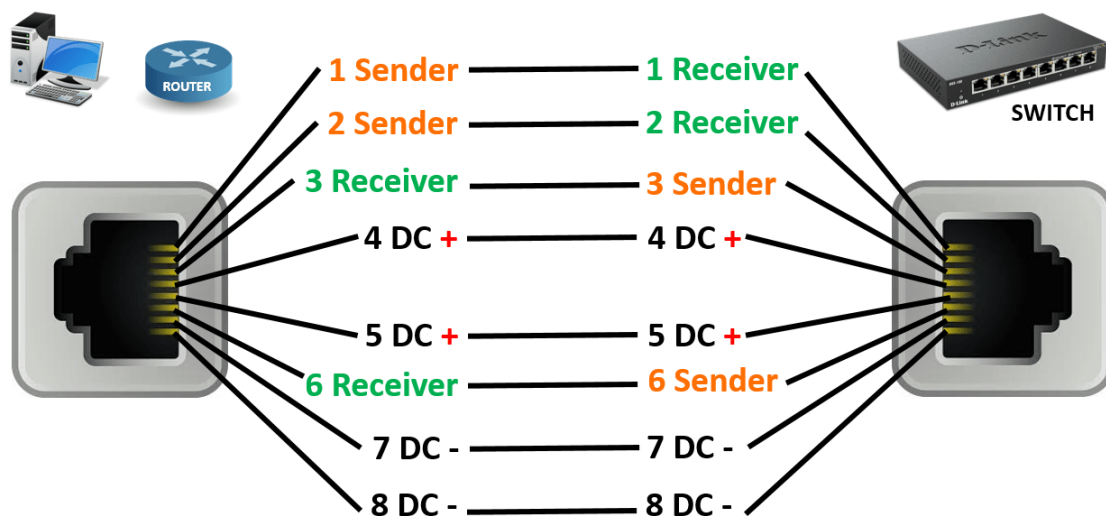learnabhi.com

LAN Cable Color Code | RJ45 connector color code

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3-4 minutes

Before understanding the **Lan cable color code** or **RJ45 Connector color code**, it is very important to understand the functions of 8 pins in the RJ45 port.

Functions of 8 Pins in RJ45 Port

According to the image given above, you can easily understand on the RJ45 Port available on PC and the

router, the pin number 1 and 2 are used for sending the data; pin number 3 and 6 are used for receiving the data; the pin number 4,5,7 and 8 are used for power supply for POE devices.

On the other hand, the RJ45 Port available on Switch or Hub the pin number 1 and 2 are used for receiving the data; pin number 3 and 6 are used for sending the data; the pin number 4,5,7 and 8 are used for power supply for POE devices.

For communication between two networking devices, the sender pin must be get connected to the receiver pin. For this reason for connecting two dissimilar devices, we use a straight-through cable.
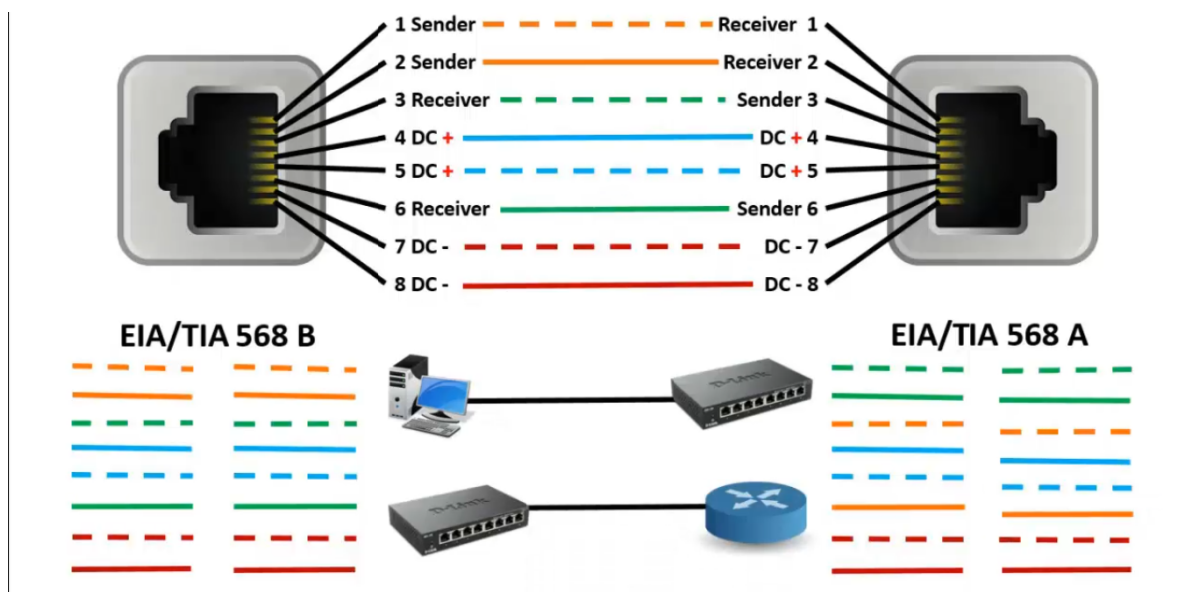
There are three types of LAN Cable:

- **Straight Cable**

- **Cross Cable**

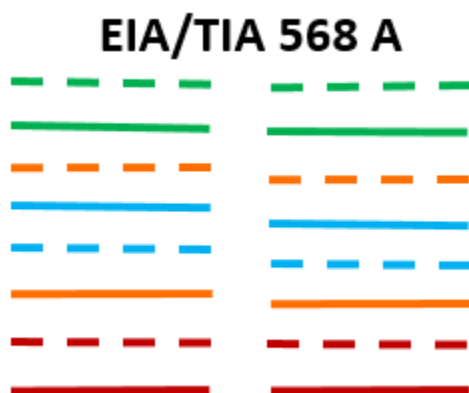- **Rollover Cable**

Straight Cable Color Code

Straight cable is used for connecting two dissimilar devices such as PC to Switch, Switch to Router, etc.
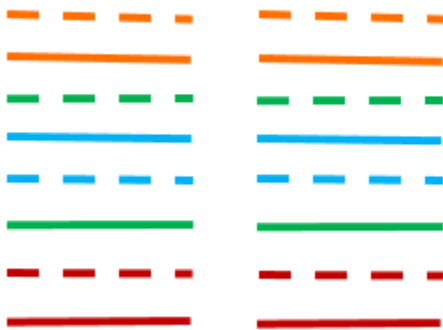
STRAIGHT THROUGH CABLE

There is two color coding standard **EIA/TIA 568A** and **EIA/TIA 568B**. While making a straight-through cable, make sure on both the side you have to apply the same standards either EIA/TIA 568A or EIA/TIA 568B.

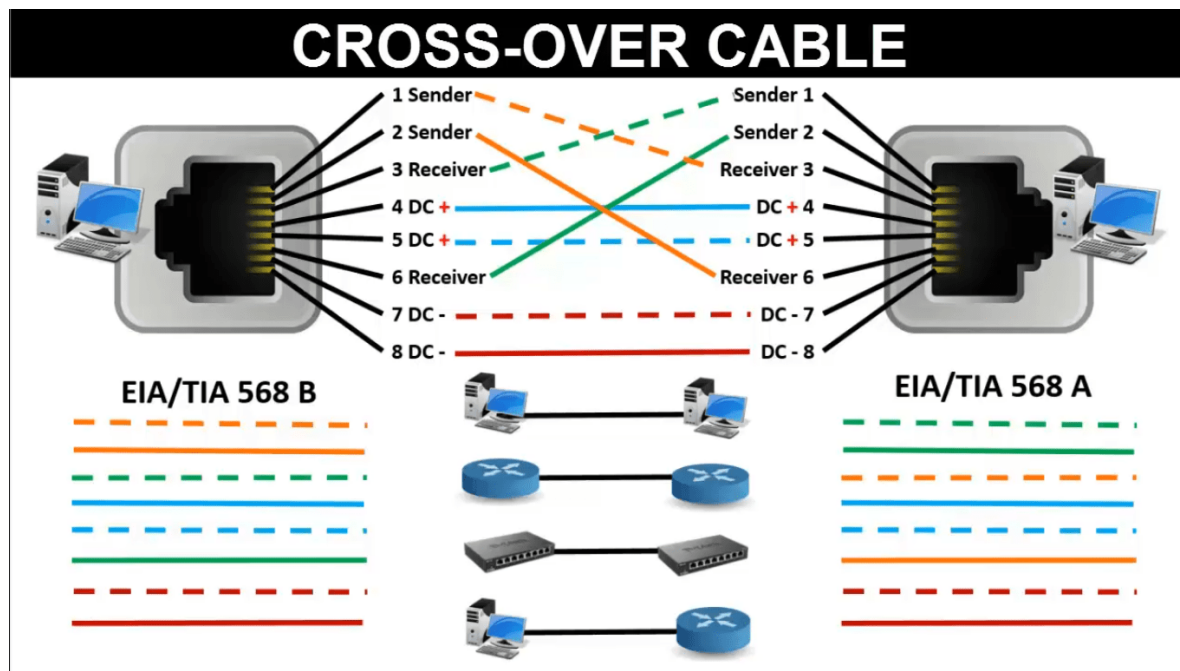**Here is the straight cable color code with EIA/TIA 568A Standard.**

Here is the straight cable color code with the EIA/TIA 568B standard.

EIA/TIA 568 B

Cross Cable Color Code

Cross cable is used for connecting two similar devices such as PC to PC, Switch to Switch, Router to Router and it is also used to connect PC to Router because PC and Router use the same kind of RJ45 Port.
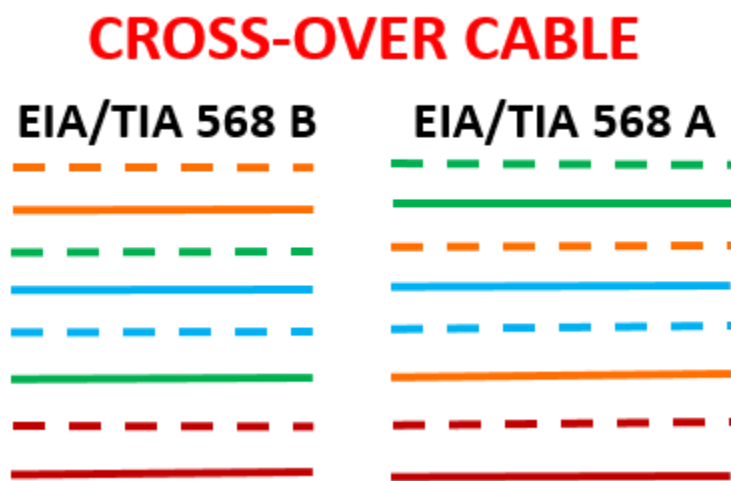

Here we are connecting two similar devices in which RJ45 Pin arrangement is the same. As we know that for communicating between two devices the sender pin must be get connected to the receiver pin. So, while

making a cross cable, make sure on one side you have to apply **EIA/TIA 568A** standard and on the other side apply **EIA/TIA 568B** standard.

It is very easy to remember the color-coding of the cross-over cable. Here is the formula, (1,2; 3,6), which means Pin No 1 and 2 will be get connected to Pin No 3 and 6. The same formula will apply on both the side of the cable.
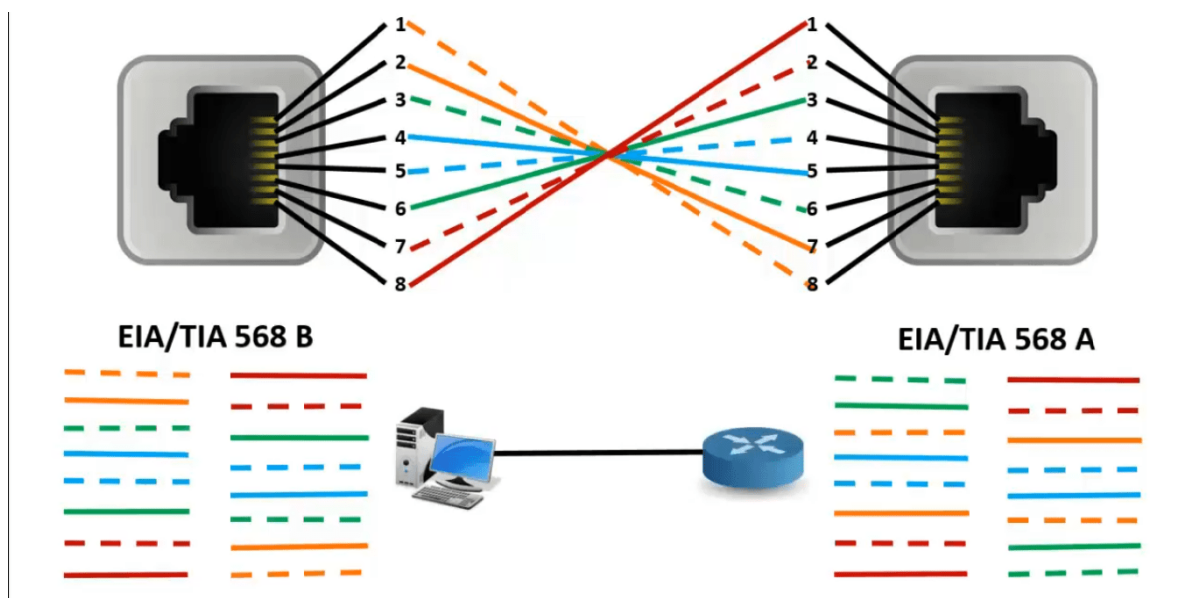
Here is the cross cable color code
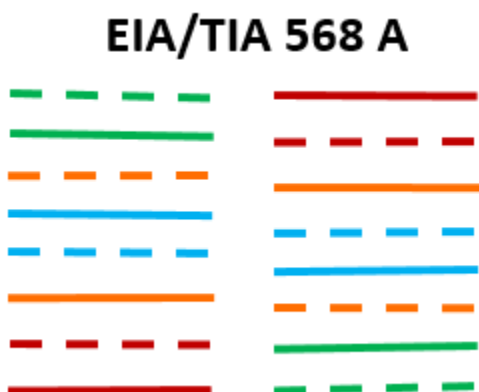

Rollover Cable Color Code

Rollover cable is used for connecting a PC to the console port of the Router. This cable is not used for sending or receiving data. It is only used for configuring the router.
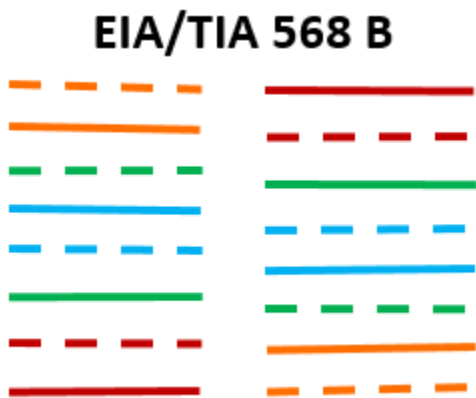
Rollover cable can be configured either by using **EIA/TIA 568A** Standard or **EIA/TIA 568B** standard. Make sure, whatever standard you are using, on the other side you have to do the complete reverse color coding.

Here is the Roll Over Cable color code with EIA/TIA 568A Standard.

Here is the Roll Over Cable color code with EIA/TIA 568B Standard.

So, this is all about **LAN Cable Color Code | RJ45 connector color code**. Hope you have enjoyed reading this article then please share it with your friends.

LAN Cable Color Code | RJ45 connector color code | Video Tutorial

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