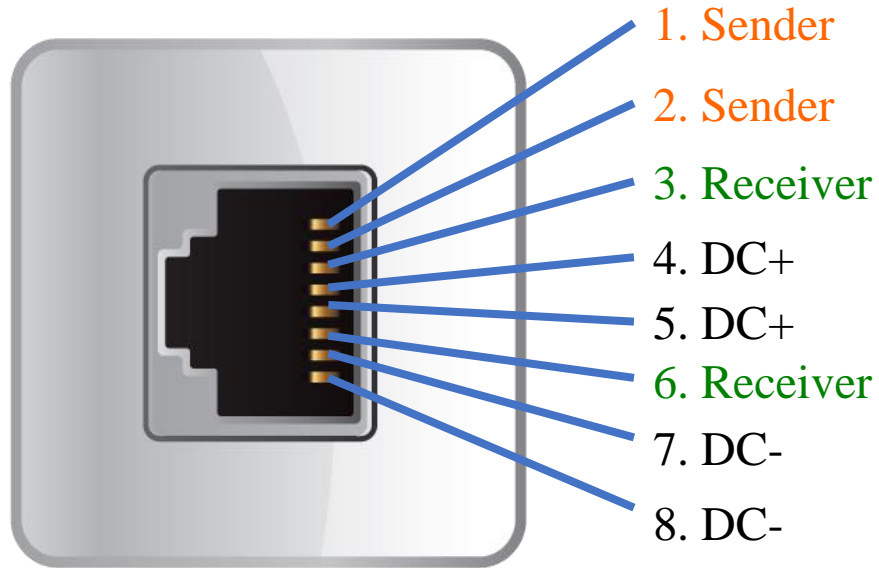


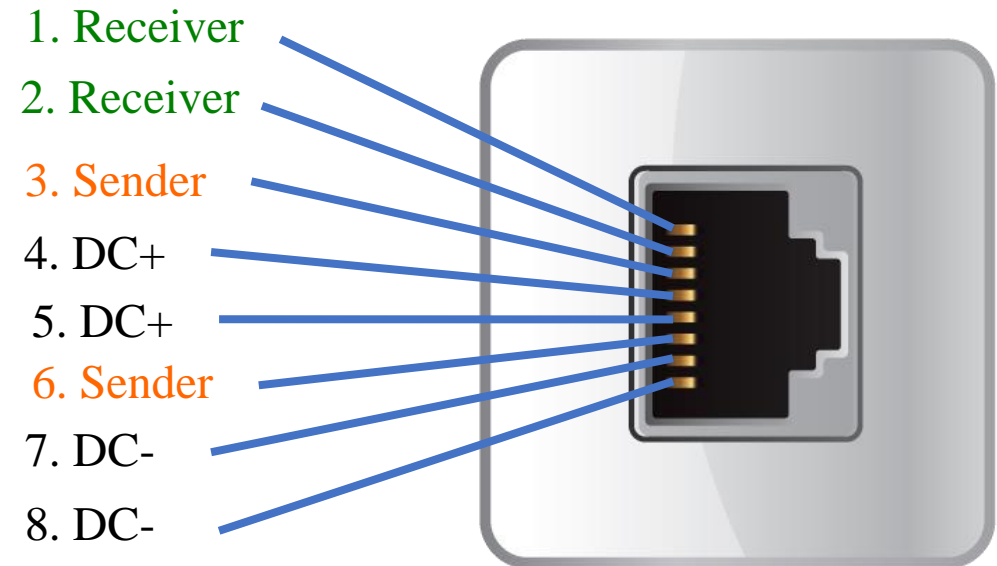
Straight through cable and Crossover cable

Pin Configuration of RJ-45 port

❑ RJ-45 is a 8 pin port, where Ethernet is inserted.



**RJ 45 pin configuration
for PC and router**



**RJ 45 pin configuration
for switch**

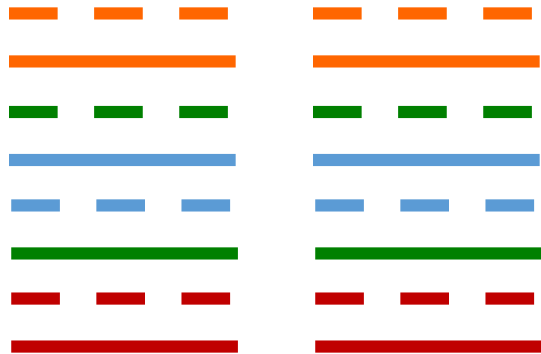
- ❑ PC will send data via pin no 1 and 2, and switch will receive data via pin 1 and 2.
- ❑ Switch will send data via pin no 3 and 6, and PC will receive data via pin 3 and 6.

Straight Through Cable

- ❑ Straight through cable can be designed using two standards – TIA/EIA 568B and TIA/EIA 568A
- ❑ For both standards, color code of the wires in both sides will be same, either TIA/EIA 568B on both sides of cable or TIA/EIA 568A on both sides of cable.

TIA/EIA means the Telecommunications Industries Association/Electronic Industries Association

TIA/EIA 568B



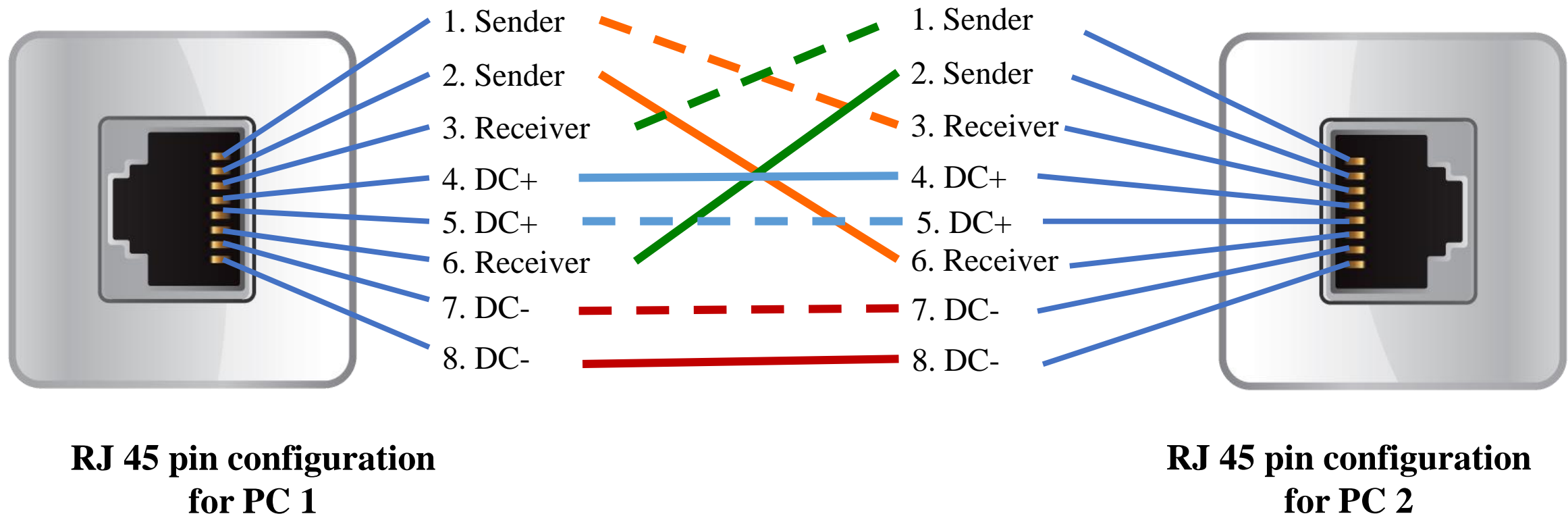
TIA/EIA 568A



- ❑ For connecting two dissimilar devices in a network Straight Through Cable will be used.

Cross-Over Cable

- ❑ For configuring two similar devices in network cross-over cable is used.
- ❑ It connects PC-PC, Router-Router, Switch-Switch and PC-Router (as RJ-45 port configurations are same for PC and router)



Color coding of Cross-Over Cable

- ❑ Color code of the wires in both sides will be different, on one side of cable TIA/EIA 568B standard, on other side of cable TIA/EIA 568A

