

## *Generic: When to use "cross over" or normal CAT5 cables*

Crossover vs. Straight Through Cables

(When to use each)

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Note: NIC = Network Interface Card, HS = Hub/Switch

Use a crossover cable in the following situations:

NIC-to-NIC

NIC-to-HS uplink port

HS uplink-to-HS uplink

HS normal-to-HS normal

Use a straight through cable (normal) in the following situations:

NIC-to-HS normal port

HS uplink-to-HS normal port

Some nicer hubs and switches allow you to choose (via a switch above the port, or possibly through software control) if the uplink port acts

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like a normal port (like any other on the back of the device) or like an uplink port (RTS/RTR crossed and Send/Receive crossed).

Crossover cables are not any different from normal cables except that one end has some wires switched so that two devices aren't sending on the same line and listening (to nothing) on the same line.

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With thanks to the contributor: bluephile

[This DokuWiki article](#) is giving detailed information about RJ45 cables.

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