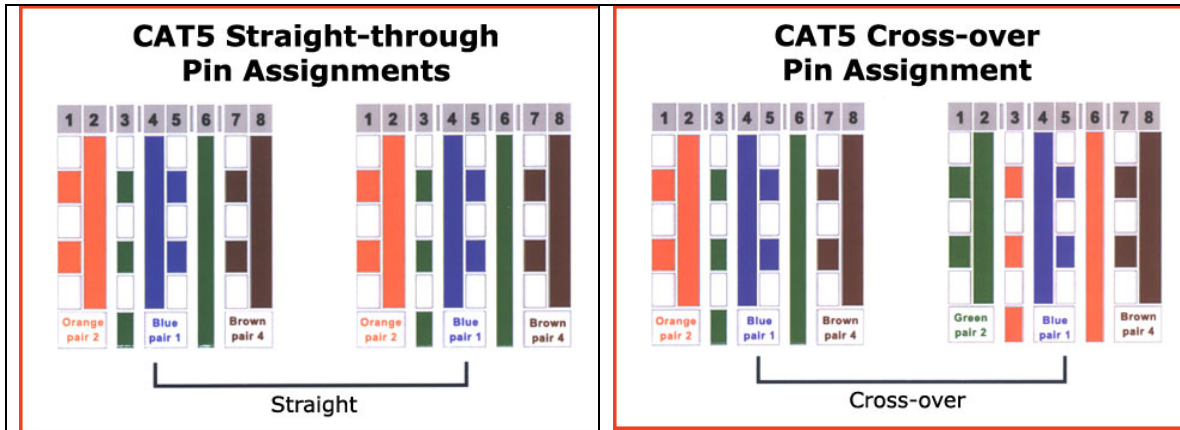




## Category 5 Cable Standards & POE Pin-out Assignments



Cat 5 cable used for a 10/100 ethernet application uses 4 wires for data and leaves 4 wires unused. Power over ethernet (POE) takes advantage of these unused wires and uses them to power remote devices.

The IEEE standard for POE calls out pins 4 & 5 for V+ and pins 7 & 8 for V-. Some POE radio manufacturers change these V+ and V- pin outs. Examples of this are Cisco and Motorola Canopy.

Our POE amplifiers are designed to IEEE standard pin outs. When using a radio with switched pin outs you will need to build a special conversion cable. Take any existing Cat5 straight cable and cut off what will be the POE radio side end and switch the pin outs as described below. You can of course build this cable from raw components as well. Remember to build the amp side as you would any other straight cable and the radio side switched.

RF Linx POE Amp (standard pin outs) to POE Radio (non-standard pin outs)

Pin 4 blue is switched to pin 7 (previously brown/white) on the radio side  
 Pin 5 blue/white is switched to pin 8 (previously brown) on the radio side

Pin	RF Linx POE Amp	POE Radio (non-standard)
1 D	Orange / White	Orange / White
2 D	Orange	Orange
3 D	Green / White	Green / White
4 P	Blue	Brown / White
5 P	Blue / White	Brown
6 D	Green	Green
7 P	Brown / White	Blue
8 P	Brown	Blue / White