



# Designs and Ideas, Inc.

PO Box 579 St. James, MO 65559

573-739-1111 www.dni-inc.com

## Connector pinouts

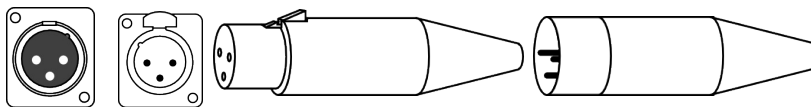
Version 2.3

*Based on common industry connection pinouts.*

**3 pin XLR** - includes NC3FX, NC3MX, NC3MP, NC3FP, NC3MDL, NC3FDL, etc.

**Common Uses:** balanced connections ; mic level and line level.

<u>Pin</u>	<u>Use</u>
1	Shield (drain, ground)
2	High (hot, plus)
3	Low (cold, minus)



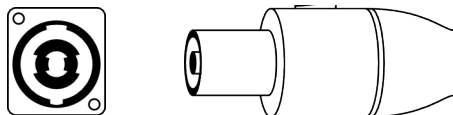
**5 pin XLR** - includes NC5MX, NC5FDL, etc. This a custom pinout for Designs and Ideas, Inc. EasyOn system only!

<u>Pin</u>	<u>Use</u>
1	Shield (drain, ground)
2	High (hot, plus)
3	Low (cold, minus)
4	switch common
5	switch

**Speakon** - includes NL4FX, NL4FRX, NL4FC, NL2FC, NL4MP, etc. (Note: for single line, non-bridge, passive crossover applications - that is, most of the time, wire to 1st pair terminals. The 2nd pair is for bi-amped cabinets or bridged amplifiers.)

**Common Uses:** speaker level

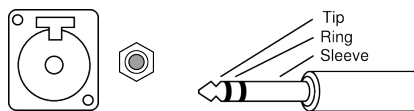
<u>Pin</u>	<u>Use</u>
1+	1st pair, high (hot, plus)
1-	1st pair, low (cold minus)
2+	2nd pair, high (hot, plus)
2-	2nd pair, low (cold, minus)



**1/4 inch, TRS** (stereo) - includes BF3P, NP3X, NJ3FC6, NJ3FP6C, etc. (Note: this pinout is ***not*** for stereo applications!)

**Common Uses:** balanced connections and stereo (two channel); mic level (often called "high-Z", or high impedance) , line level, speaker level

<u>Pin</u>	<u>Use</u>
tip	High (hot, plus)
ring	Low (cold, minus)
sleeve	Shield (drain, ground)



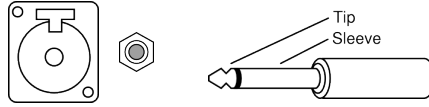
*There is also a 3.5 mm (1/8 inch) version*

**1/4 inch, TS (stereo)** - includes BF2P, NP2X

**Common Uses:** unbalanced connections; mic level (often called "high-Z", or high impedance), line level, speaker level

<u>Pin</u>	<u>Use</u>
tip	High (hot, plus)
sleeve	Shield (drain, ground)

*There is also a 3.5 mm (1/8 inch) version*



Below he most common way to wire between balanced and unbalanced. **THIS IS NOT UNIVERSAL.**

**Please** check the user's manual for the equipment you are connecting.

center	hot
barrel	cold and shield

**8P8C Network** Often used mis-name is RG45. This is based on standard EIA/TIA-568-B for wiring T568A and T568B. T568A is preferred, though what really matters is that both ends are wired the same - unless the objective is a cross-over cable.

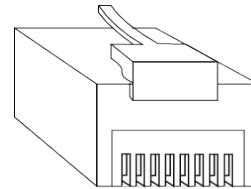
**Common Uses:** ethernet, any signal sent over CAT5 (like VGA, video, audio, control, etc.)

**T568A**

1	white/green
2	green
3	white/orange
4	blue
5	white/blue
6	orange
7	white/brown
8	brown

**T568B**

1	white/orange
2	orange
3	white/green
4	blue
5	white/blue
6	green
7	white/brown
8	brown



**Pin 1**

**Crossover:** To wire a 4-pair crossover suitable for gigabit

**T568A**

<u>End 1</u>	<u>End 2</u>
white/green	1 white/orange
green	2 orange
white/orange	3 white/green
blue	4 white/brown
white/blue	5 brown
orange	6 green
white/brown	7 blue
brown	8 white/blue

**T568B**

<u>End 1</u>	<u>End 2</u>
white/orange	1 white/green (3)
orange	2 green (6)
white/green	3 white/orange (1)
blue	4 white/brown (7)
white/blue	5 brown (8)
green	6 orange (2)
white/brown	7 blue (4)
brown	8 white/blue (5)

**BNC** - includes NBNC75BLP9, etc.

**Common Uses:** coax cable; baseband video, component video, RGB video, wireless antenna.

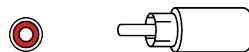
<u>Pin</u>	<u>Use</u>
center	center conductor
barrel	shield



**RCA** - also called "phono", includes NYS373, etc.

**Common Uses:** baseband video, component video, unbalanced audio, line level audio, speaker level audio

<u>Pin</u>	<u>Use</u>
center	center conductor
barrel	shield



Below he most common way to wire between balanced and unbalanced. **THIS IS NOT UNIVERSAL.**

**Please** check the user's manual for the equipment you are connecting.

center	hot
barrel	cold and shield