

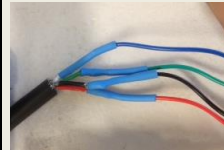




4/15/2014 Opentrons		USB Cable	
Gold USB extension			TinyG Out: Female USB
X,	Step motor	USB - Cable - Male	Motor 1
	1 Red 2 Blue 3 Green 4 Black	Red White Green Black	 Red A1 White A2 Green B1 Black B2
Y1, Y2 motors			Motor 2 :
	Step motor	USB - Cable - Male	Dual Y motor - Y1 and Y2 are reverse phase
	Red Blue Green Black	Red White Green Black	Motor 2 : Y1 Red A1 White A2 Green B1 Black B2
Z and A motor : Connect from motor		Step motor	USB - Cable - Male
Wire number from Motor		Color might vary	to TinyG
	1 Red 3 Gray 4 Yellow 6 Green	Red White Green Black	Red A1 White A2 Green B1 Black B2
White or Silver USB extension cable			
Switch		USB Male	home switch - Male
Output		Red	
3.3V		Black	
Ground		White	Level - Ball
			To Tiny G : Female USB
			RED - Signal
			Black to 3.3V
			White - Ground

Temp Sensor

Sensor	USB	tinyg
Red	Red	+3.3
Black	Black	Ground
Green	Green	Do not wire cooling
Blue	White	PWM with Resistor

4.7 KQ resistor at the board from PWM : Blue to Red

Spin/Sp Dir	USB	Tinyg
	Red	+3.3
	Black	Ground
	green	Spin Dir
	White	Spin

