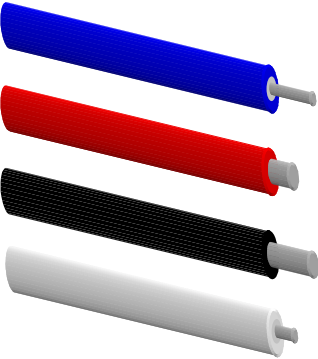


Name _____

Quiz #2

	Where is this color of wire used on the robot?	Using what voltage(s)?	Is this wire correctly stripped?	Why is it correctly or not correctly stripped?

2) Why is it a good idea to “color-code” wires?

3) Why do we use “shrink-wrap”?

4) What is the difference between a regular connector and one that is polarized?

4) What is a “solder-bridge” and why is it generally not good?

5) Match the following equations:

Ohm's Law _____

Parallel resistance _____

Series resistance _____

A) $R_t = R_1 + R_2 + \dots + R_n$

B) $V = I * R$

C) $\frac{1}{R_t} = \frac{1}{R_1} + \frac{1}{R_2} + \dots + \frac{1}{R_n}$

6) What is the sum of all voltages around a circuit (loop)?

What is the equivalent resistance for each of these circuits if each resistor is 20 Ω?:

