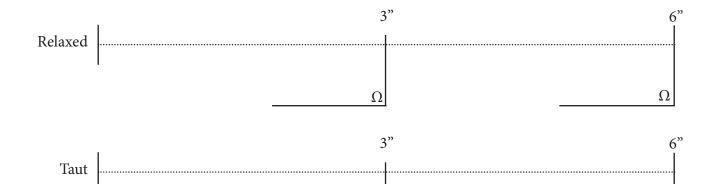
Ω

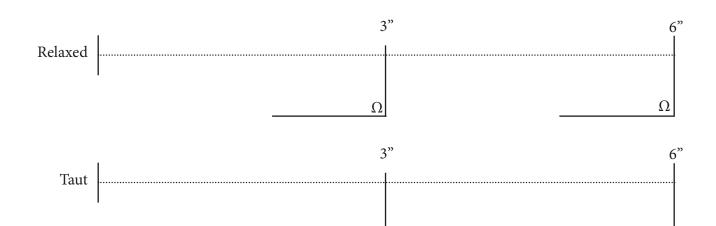
Sample 1: _____



 Ω

How does resistance change with length and tension? Why? Consider the structure of the yarn.

Sample 2:



How does resistance change with length and tension? Why? Consider the structure of the yarn.

mple 3:		
n.1 1	3"	6
Relaxed		
	Ω	Ω
Taut	3"	6
	Ω	Ω
w does resistance change with le	ngth and tension? Why? Consider the structure o	f the yarn.
	ngth and tension? Why? Consider the structure o	f the yarn.
	ngth and tension? Why? Consider the structure o	f the yarn.
nple 4:	3"	6
nple 4:		6
nple 4:	3"	6

How does resistance change with length and tension? Why? Consider the structure of the yarn.

EXPERIMENTAL TEXTILES Understanding Conductive Yarn Structures

The images below describe how the metal and non-metal elements of the yarn are oriented. This can help explain resistance behaviors. Each row contains an: image; generalized cross-section (with black representing metal and outlined representing non-metal); and a generalized drawing of the length of the structure

Karl Grimm Silver







filaments wrapped in matal then spun together

source: kobakant - https://www.kobakant.at/DIY/?p=8012

Karl Grimm Copper





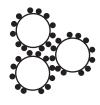


filaments wrapped in matal then spun together

source: kobakant - https://www.kobakant.at/DIY/?p=8012

Statex







spun from synthetic fibers or filaments, then coated in thin layer of metal

source: kobakant - https://www.kobakant.at/DIY/?p=8012

Magnet Wire / Silicone Coated Wire





continuous metal filaments coated in either silicone or polyurathane

Spun Stainless





spun from conductive fibers or filaments

source: kobakant - https://www.kobakant.at/DIY/?p=8012