



Conductive metal fibers



UPDATE YOUR LIFE

TOTOKU INC.

Development of conductive metal fibers

Purpose and Use

Update your life with conductive metal fibers that can be sewn, woven, and knitted.



Smart Sensing
→ Monitoring/
Measurement



Vital Sensing
→ Medical/Healthcare



Shield
→ EMI



Wearables
→ Clothing/ Decoration



Infrastructure
→ Water pipes/roads

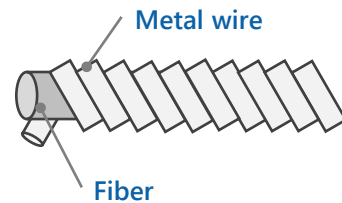
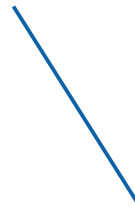
Advantages

High conductivity

Soft texture

Rust resistance and
corrosion resistance

※ Depends on the material



Rough sketch

Specification

metal material	Copper/ Copper alloy SUS	Soft and highly conductive. Rust and corrosion resistant.
Fiber materials	Tailored to your needs.	
Metal Wire Diameter (Single wire)	20 μm~100 μm	
Twisted Wire Structure	Basically 2~7 twists. Adjustment is possible upon request.	
Metal wire coating	Tailored to your needs.	
length	Short lengths (several meters) to long lengths (several thousand meters) with bobbins are possible.	

