



## Fine Flat Wire for High Space Factor Motors SFTR-AIW

SFTR-AIW has a smaller corner radius than conventional products, increasing its effective conductor area by 7%, which contributes to higher space factors.

### Characteristics

	existing product SFT-AIW	Developed products SFTR-AIW
cross-section		
Corner R	All R	0.1mmR
flexibility	self-width winding ◎	self-width winding ◎
conductor Cross-sectional area	92.7%	99.8% [7% improvement]
conductor resistance (Ω/m)	37.4	34.8 [7% improvement]

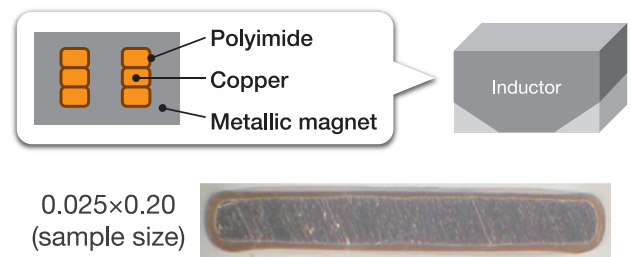
### Characteristics Comparison

		existing product	Developed products
Conductor Dimensions (mm)	thickness	0.50	0.50
	width	1.00	1.00
Film thickness (mm)		0.015	0.015
finished Dimension (mm)	thickness	0.53	0.53
	width	1.03	1.03
conductor resistance (Ω/m)		37.4	34.8
breakdown of insulation (kV)		2.0	2.0
elongation (%)		35	35

**Propose** | Precision, high-power motors, coils

## Ultra-fine Flat Wire for Metal Powder Components SFT-BI-NV

We've developed a material with a higher glass transition temperature than polyamide imide, making it more resistant to delamination than conventional polyimide. This helps reduce entanglement and core cracking when it is processed together with metallic magnets.



## Flat Wire Applications

USE	Ultra-fine flat wire		Fine flat wire	Thin flat wire	Thick film flat wire	Fine flat wire
USE	Smartphones inductor	Memory inductor	Inductor	Reactor	Motor Generator	Precision Motors (Robotics,Medical)
ex)	