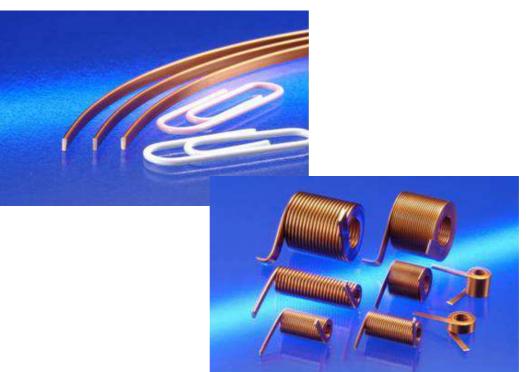


FINE FLAT ENAMELLED WIRE

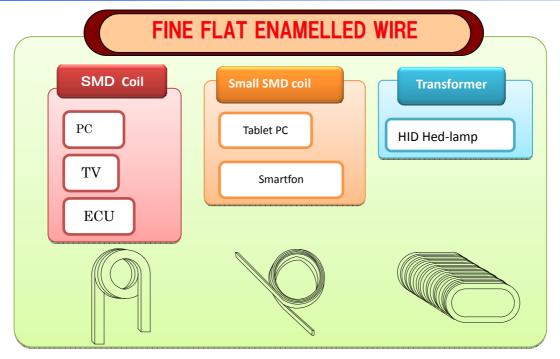


FINE FLAT ENAMELLED WIRE, what is it?

Customer has requested that to be more efficient in using space, high electricity and density in the developing stage of the high spec and quality coil. We, Unimac Japan have developed this product successfully by using the above the requirements. The property of our flat magnet wire outweigh the round wire which is from 0.07mm to 1.7mm in a cross section, and the flat wire's conductor was insulated accordingly. It will give you a wide-ranged of possibility on your products. In addition, it will contribute to the minimization of volume, weight reduction and enhance the electrical efficiency on our product.



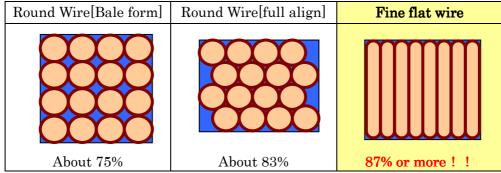
USE



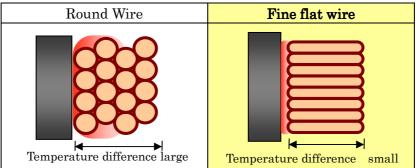
Unimac Ltd.

Advantage of our products.

• Fine flat wire gives you more efficient space and electrical power rather than that of the general round wire.



 \cdot The heat dissipation of the coil made by fine flat wire is much better than that made by round wire, because the difference in temperature is small between the internal and external parts of the coil.



• Fine frat wire will enable you to design the coil which holds efficient magnet field because of the excellence of frequency characteristics.

Features on our products.

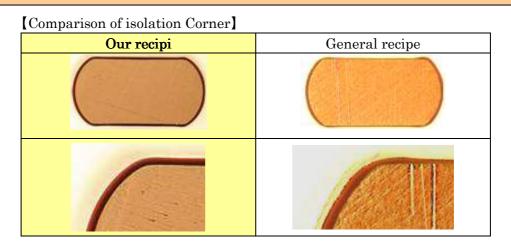
(1) The characteristic of insulation resistance on the corner of coil is much better than its of the general made manufacturing processes.

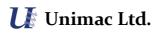
(2) We are able to manufacture the products which hold the properties of the heat resistance(from 155° to 220°) by using a wide-range materials.

(3) We are able to provide the wires put the soldering on the surface of conductor. The heat-resistant temperature on insulator film: 155°C

(4) We are able to provide the solderable enameled wire.

(5) We are able to provide the products in accordance with the UL. (Our brand name is SFT-AIWU)





Varieties

□Our products feature [standard]

	SFT	【Ref.】	
	Fine flat wire	Ultra-fine flat wire	General flat wire
Equivalent diameter round wire (mm)	0.31~1.7	0.07~0.3	1.8~8.0
ratio conductor	1:1.5~1:20	1:1.5~1:10	1:2.0~1:10
Minimum conductor thickness (mm)	0.08	0.02	0.08
standard coating thickness (mm)	0.020	0.005	0.050
Insulation resin	Modified-polyester	Modified-polyester	Folmal
	Polyamide-imide	Polyamide-imide	Polyester
	etc.	etc.	Polyamide-imide
Selfbonding-wire	0	0	(O)

□Standard type

Insuralation	Thermal index	Self-bonding layer		
Insuralation	Thermal muex	No	Yes	
Modified-polyester(soluderble)	155°C	SFT-FH	SFT-BH-N1	
Polyamide-imide	220°C	SFT-AIW	SFT-BA-NV	
		SFT-AIWU*1	SFT-BA-NS*3	
		SFT-AIW40K*2		

 $\ast 1$ This item complies with UL standard.

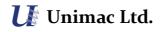
 $\ast 2$ This item is corresponds to metal powder composite

*3 This item is high heat resistance thermosetting type

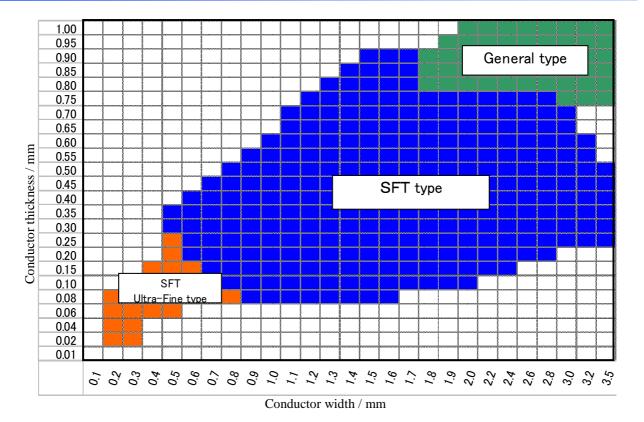
□Representative characteristic example

			Fine fla	Ultra fine flat wire			
Insul	ating resin	Modified	d polyester	Polyan	nideimide	Polyamideimide	
Index		SFT-FH SFT-BH-N1 SFT-AIWU SFT-BA-NV		SFT-BA-NV	SFT-BA-NV		
Si	ze(mm)	0.14×2.0	0.70×2.0	0.10×2.0	0.70×3.0	0.02×0.3	0.10×0.6
conductor	Thickness	0.140	0.700	0.100	0.700	0.020	0.100
(mm)	Width	2.00	2.00	2.00	3.00	0.30	0.60
Insulationfilm (mm)		0.015	0.017/0.004	0.015	0.020/0.002	0.005/0.002	0.005/0.002
Outside	Thickness	0.170	0.742	0.130	0.744	0.034	0.114
(mm)	Width	2.03	2.04	2.03	3.04	0.32	0.62
В.	D.V.(kV)	1.5	3.0	3.0	3.5	0.7	1.5
Conductor	resistance (Ω/km)	63.90	14.00	92.30	8.50	3200	310
Elongation(%) Solderbility Stickness(N)		35.0	25.0	35.0	35.0	25.0	25.0
		430°C×3sec	430°C×3sec	_	_	_	_
		_	5.0	_	8.0	0.6	1.2

* This figure is just for reference.



Manufacturing range



Packing

Γ			Flange	Barrel	Inside	Flange	Shaft	mass	Quantity	Applied
	Change	Sign	D	d	W	thickness	hole		standard	varieties
	Shapes		(mm)	(mm)	(mm)	а	h	(kg)	(kg)	
						(mm)	(mm)			
		P-5	160	100	90	12	20	0.35	5	Fine-flat
		1.0	100	100	30	14	20	0.55	5	General
1	$\begin{array}{c c} \bullet \\ \bullet $	P-10	200	90	108	12	25	0.5	10	General
		P-30	300	130	130	15	30	1.3	30	General

Contact Us		
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