

Fujikura Electronics (Thailand) Ltd. ◀ FETL ▶

http://www.fujikura-electronics.co.th https://www.fpcl.fujikura.com







CORPORATE PROFILE

Ensure the Management Foundation and Craftsmanship for the Corporation's Future



Company Name Fujikura Electronics (Thailand) Ltd. : FETL

Head Office

1/80 Moo 5, Rojana Industrial Park, Rojana Road, Tambol Kanham, Amphur U-Thai, Pranakorn Sri Ayutthaya 13210, Thailand

President & CEO Mr.Terunobu Mochizuki

Establishment (Date of integration) 1 April 2010

Capital 11,552 million Baht

Shareholders Fujikura Printed Circuits Ltd. Japan 100%

Factories

Ayutthaya Factory 1 (A1) Navanakorn Factory 1 (N1) Prachinburi Factory 1 (P1) Kabinburi Factory 1 (K1)

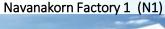
Sale Office Silom, Bangkok

Employees Around 8,000 psn

Main products Flexible Printed Circuits (FPC) Surface Mount Technology (SMT) in FPC

Ayutthaya Factory 1 (A1)







Prachinburi Factory 1 (P1)



Kabinburi Factory 1 (K1)



Bangkok Sale Office





MISSION

To create exceptional value for our customers around the world using **"Tsunagu"** technologies

We dedicate ourselves to providing exceptional products and solutions earning our customers trust and contributing to society

VISION

"All employees working livelily" and "To achieve the world Number 1 competitive manufacturer of FPC"

CORE VALUES

CS	С	С	
Customer Satisfaction	Collaboration	Change	
ความพึงพอใจของลูกค้า คุณคิดว่าลูกค้าพึงพอใจ แล้วหรือยัง? "Are the customers satisfied?"	การประสานความร่วมมือ คุณให้ความร่วมมือกับผู้อื่น แล้วหรือยัง? "Do you collaborate with others to fully realize capabilities and potential?"	ยอมรับการเปลี่ยนแปลง คุณพร้อมที่จะรับการท้าทายกับการ เปลี่ยนแปลงแล้วหรือยัง? "Are you willing to take up challenges with enthusiasm to drive progress?"	

"Tsunagu" in Japanese word mean "connecting"



FUJIKURA FPC GLOBAL NETWORK

Contraction of the second s	FPCL Akita Factory : Japan
A AND	- Prototype Production
FESL : Shanghai	- High End Flex Production - Production for Domestic
- Mass Production (SMT Flex)	
	FPCL (HQ) : Japan
	R&D / Design
FETL : Thailand	
- Mass Production (Bare Flex) - Mass Production (SMT Flex)	FEVL: Vietnam
	Mass Production (Bare Flex) Mass Production (SMT Flex)

Country	Location	Front	Backend	Assy	IATF Certificate
	Ayutthaya (A1)	0	0	0	-
The sile is a	Navanakorn (N1)	×	×	0	-
Thailand	Prachinburi (P1)	×	0	0	IATF16949
	Kabinburi (K1)	0	×	×	IATF16949
Vietnam	Ho Chi Minh	0	0	0	IATF16949
China	Shanghai	×	×	0	-
Japan	Akita	0	0	0	IATF16949



FETL FACTORY LOCATION IN THAILAND

Ayutthaya Factory 1 (A1)

1/80 Moo 5, Rojana Industrial Park, Rojana Road,Tambol Kanham, Amphur U-Thai, Pranakorn Sri Ayutthaya 13210 Thailand TEL: (+663) 522-6901 -5



Prachinburi Factory (P1)

118/2 Moo 11, Suwannasorn Road, Tambol Banpra, Amphur Muang Prachinburi, Prachinburi 25230 Thailand TEL: (+ 663) 721-3323



Navanakorn Factory 1 (N1)

101/2 Moo 20, Navanakorn Industrial Zone, Phaholyothin Road, Tambol Klongnueng, Amphur Klongluang, Pathumthani 12120 Thailand TEL: (+662) 529-3523



Kabinburi Factory (K1)

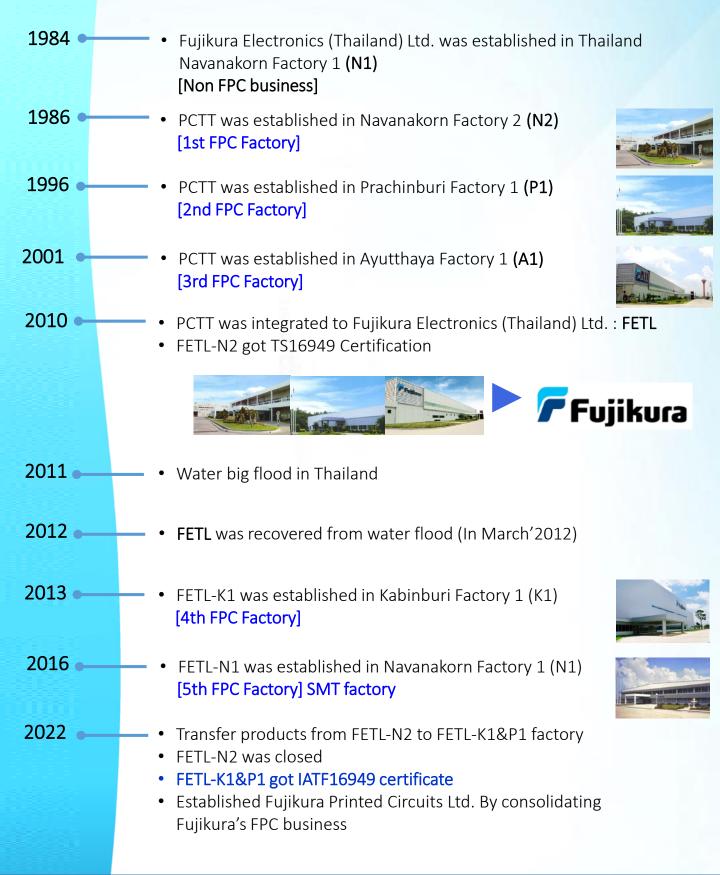
612/12, Moo 9, Kabinburi Industrial Zone, Tambol Nong ki, Amphur Kabinburi, Prachinburi 2511 0 Thailand TEL: (+663) 745-5711



Bangkok Sales Office 28th Floor, United Center Building, 323 Silom Road, Silom, Bangrak, Bangkok 10500 Thailand TEL. (+662) 231-1965

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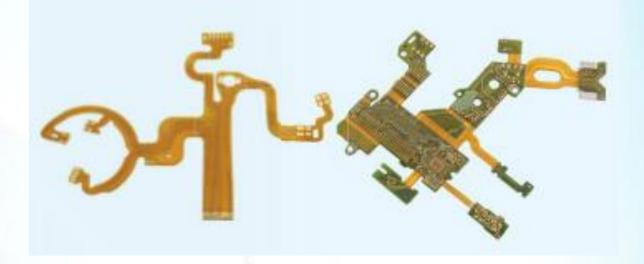
FETL HISTORY



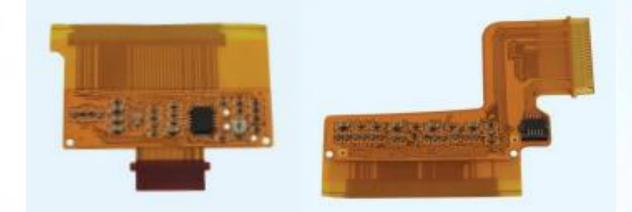


OUR PRODUCT

Flexible Printed Circuits (FPC)



Surface Mount Technology (SMT)



FETL

We can produce both FPC and SMT process This is good point for QDC control

, (Quality • Delivery • Cost)



PRODUCTS APPLICATION





PRODUCTS HIGHLIGHT

IMPEDANCE CONTROL FPC

We perform simulations based on the "FPC material composition" and "Design circuit impedance value". Propose the optimal FPC circuit design for impedance matching and provide the product.

FEATURES

- We can supply impedance control FPC suitable for various high-speed transmissions.
- We can proposes structural that match the customer's required specifications

It is possible to verify design validity by proposing a design through simulation and measuring a design through simulation and measuring it with an actual product.



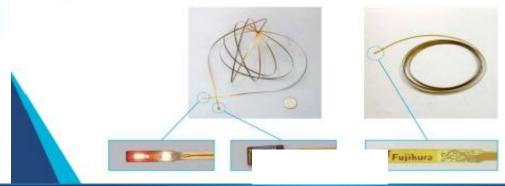
LONG FPC

XCan provide at Fujikura Japan only

We offer ultra-thin and long FPC with a length of 2.0m or more and width of 1.0mm or less.

FEATURES

- Reducing weight by replacing coaxial cables
- Minimum circuit width/Circuit gap = 50um/50um available.
- It is possible to mount components such as Sensors and LED





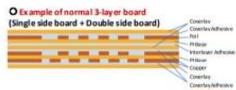
PRODUCTS HIGHLIGHT

HIGH DENSITY WIRING FPC

We would like to introduce a multilayer hollow FPC that has a hollow structure at the bending part, which is expected to improve ease of assembly and flexibility.

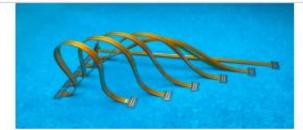
FEATURES

- Bending properties equivalent to single-side or double-side boards due to multilayer hollow structure
- Proposing the optimal structure through FPC bending tests and repulsion force measurements





We will propose the optimal structure according to your specification, such as Singleside board + Single side board, Double side board + Double side board, etc...





HIGH HEAT DISSIPATION FPC

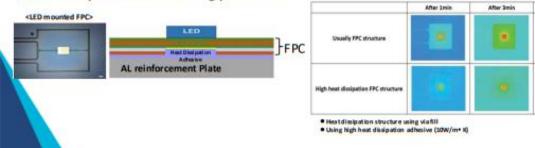
XUnder development

After 20min

We introduce FPC that efficiently dissipate heat from components within devices arranged in high density.

FEATURES

- Heat dissipation insulation adhesive with high thermal conductivity
- Heat dissipation structure using pad-on-via





PRODUCTS HIGHLIGHT

FPC FOR AUTOMOTIVE

X For Double Side FPC are under development

FPC for battery voltage monitoring

Battery voltage and temperature monitoring for BEV, HEV, etc.

FEATURES

Special length

- Weight reduction from wiring with wire harness
- Achieves space savings compared to wiring using a wire harness
- Temperature monitoring device (Thermistor) can also be

implemented

Functions of FPC for battery voltage monitoring

Functions required for monitoring wiring

- Battery cell voltage / Current monitor
- Battery cell temperature monitor
- Battery / CMC connection

Comparison between wire harness and FPC

Wiring with wire harness



Wiring material weight: 121g (968g/1stand)

Wiring material thickness: 15mm

Parts cannot be mounted Complexity of wire routing work

Wiring by FPC



2.3g (18.4g/1stand)	950g/1 unit lighter*
0.14mm	14.86mm thinner*

Simplify work with integrated wiring Contributes to increased battery capacity/power consumption performance

*Assumed value based on BMW i3

FPC is Easily assembly and light weight





We're Fujikura Electronic (Thailand) Ltd.,

Responding to the need for **Smaller, Lighter, and Thinner** wearable devices We respond to a wide range of requests from design and development to mass production. We will help you realize your ideals.



7 Fujikura

Fujikura Group Environment Long-Term Vision 2050



Challenge 1

Zero CO2 emissions at plant by 2050 Climate change



Challenge 2

Minimize use of water at plants and wastewater management



Challenge 3

Symbiosis between plant workers and nature

Challenge 4

Effective use of resources and resource cycle

http://www.fujikura-electronics.co.th https://www.fpcl.fujikura.com