

Press Release

KYOCERA Launches New Electronic Connectors that Feature One-Touch Locking for Automated Assembly Processes

Durable, heat-resistant 6810 Series FPC/FFC connectors enhance manufacturing productivity for automotive, industrial and consumer electronics

Kyoto/London, July 4, 2017 – Kyocera Corporation (President: Hideo Tanimoto) today announced its first electronic connectors to feature one-touch locking, which will be available globally in July 2017. Kyocera's new 6810 Series flexible printed circuit (FPC) and flat-flex cable (FFC) connectors provide automatic locking upon full insertion, a key feature to support automated manufacturing and robotic assembly processes. The 6810 Series connectors also offer heat resistance up to 125°C (257°F) for automotive, industrial and consumer electronics applications.



6810 Series One-touch Locking FPC/FFC Connectors

Product Name	6810 Series One-touch Locking FPC/FFC Connector
Availability	July 2017
Applications	Automobile, industrial and consumer electronics

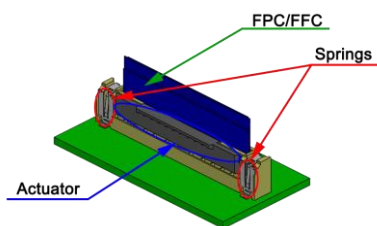
The trend toward automated manufacturing is creating widespread demand for new component designs that support robotic assembly. However, conventional connectors which require manual insertion and locking impede this trend. In contrast, Kyocera's new one-touch locking 6810 Series connectors utilize a proprietary structure that enables quick, stable connections in a single insertion, removing a significant impediment to fully automated assembly. Specifically designed to support automated optical inspection (AOI) for high-speed quality assurance, these connectors offer a valuable opportunity to enhance productivity in electronics manufacturing.

Kyocera's new 6810 Series connectors are available in two configurations: a straight type that mounts perpendicular to the circuit board for vertical insertion, and a right-angle type mounting parallel to the board for horizontal insertion.

Main Features

1. Proprietary one-touch locking

Kyocera's proprietary structure includes springs at both ends of the connector to facilitate automatic locking upon full insertion. This structure ensures quick and stable connections.

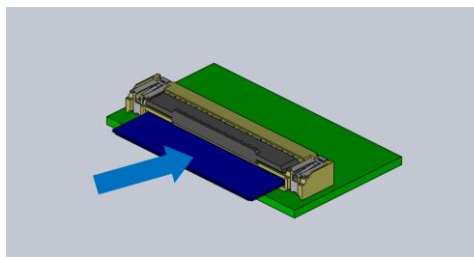
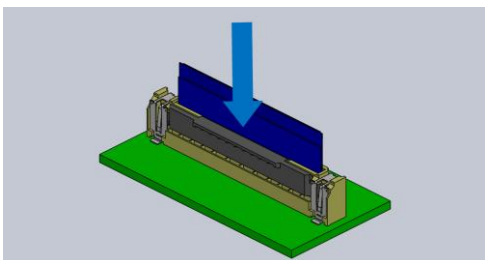


Structure image

2. Facilitates increased productivity and quality

The new 6810 Series is optimized for high-speed robotic assembly processes, where QA may be confirmed through AOI.

3. Straight and right-angle configurations enhance design flexibility



Straight (ST-Type), mating vertically

Right-angle (RA-Type), mating horizontally

4. Heat-resistant type up to +125 °C (257 °F) for automotive electronics

The new Kyocera connectors offer excellent durability and heat resistance up to 125 °C (257 °F), facilitating use in under-hood electronics, near drivetrain components or near other heat sources.

5. RoHS compliant and halogen-free

6. Specifications

Heat resistant type

No. of Pins	10 to 60	FPC/FFC Thickness	(Signal) 0.3±0.03 mm (Grand) 0.5±0.03 mm
Pitch	0.5 mm	Rated Current	DC 0.5 A/Contact
Height	(ST) 6.0 mm (RA) 4.1 mm	Rated Voltage	DC 50 V/Contact
Width	(ST) 4.15 mm (RA) 6.7 mm	Materials	Copper alloy/ Heat-resistant plastic
Locking Type	Non-ZIF One-action lock	Operating Temperature Range	-40 to +125 °C
Contact Position	(ST) Single side (RA) Bottom	D.W. Voltage	AC 200 Vrms/min.

General type

No. of Pins	10 to 60	FPC/FFC Thickness	(Signal) 0.3±0.03 mm (Grand) 0.5±0.03 mm
Pitch	0.5 mm	Rated Current	DC 0.4 A/Contact
Height	(ST) 6.0 mm (RA) 4.1 mm	Rated Voltage	DC 50 V/Contact
Width	(ST) 4.15 mm (RA) 6.7 mm	Materials	Copper alloy/ Heat-resistant plastic
Locking Type	Non-ZIF One-action lock	Operating Temperature Range	-40 to+85 °C
Contact Position	(ST) Single side (RA) Bottom	D.W. Voltage	AC 200 Vrms/min.



For more information on Kyocera: www.kyocera.co.uk

About Kyocera

Headquartered in Kyoto, Japan, Kyocera Corporation is one of the world's leading manufacturers of fine ceramic components for the technology industry. The strategically important divisions in the Kyocera Group, which is comprised of 231 subsidiaries (as of March 31, 2017), are information and communications technologies, products which increase quality of life, and environmentally friendly products. The technology group is also one of the oldest producers of solar energy systems worldwide, with more than 40 years of experience in the industry.

The company is ranked #522 on Forbes magazine's 2017 "Global 2000" listing of the world's largest publicly traded companies. With a global workforce of over 70,000 employees, Kyocera posted net sales of approximately €11.86 billion in fiscal year 2016/2017. The products marketed by the company in Europe include printers, digital copying systems, microelectronic components, and fine ceramic products. The Kyocera Group has two independent companies in the United Kingdom: Kyocera Fineceramics Ltd. and Kyocera Document Solutions.

The company also takes an active interest in cultural affairs. The Kyoto Prize, a prominent international award, is presented each year by the Inamori Foundation — established by Kyocera founder Dr. Kazuo Inamori — to individuals and groups worldwide who have contributed significantly to the scientific, cultural, and spiritual betterment of humankind (converted at approximately €400,000 per prize category).

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