

# CONNECTORS

INDUSTRIAL APPLICATIONS



## PRODUCT INTRODUCTION

**KYOCERA AVX Fine Pitch Connectors** offers high-reliable signal and power connectors for today's challenging industrial market needs. Kyocera offers wide variety FPC/FFC and Board to Board connectors, including add value designed product line at One-action locking and Floating Board to Board as FloXY & FloXY HS. These features connectors are ideal to aid in the data transfer needs of Industry 4.0, Factory Automation, Security Camera, Robotics, Drones, Satellite Communication, and other industrial applications. Also offered are Branch connectors designed to copper wire and aluminum wire with fully waterproof specification.

## Top Selling Points / Features

- Fine Pitch, Space-saving and Stacking Height variation design
- High reliability (XY floating, wider offset mating, secure-locking, high temperature) design
- High-speed transmission and impedance matching design
- Add value design, such as High-current & Hybrid Power-line, One-action locking, Waterproof, IATF 16949 certified

**"High Reliability"**



**FloXY** 

 [Click for more detail](#)

**Board to Board**  
Pitch: 0.4~0.5mm  
Parallel / Vertical

**"High-speed"**



**FloXY<sup>HS</sup>** 

 [Click for more detail](#)

**Board to Board**  
Pitch: 0.4~0.5mm  
Parallel

**"High Variation"**



 [Click for more detail](#)

**Board to Board**  
Pitch: 0.4~0.5mm  
Parallel

**"Add Value"**



**Sheltap**<sup>®</sup>

 [Click for more detail](#)

**Branch Connectors**  
IPX9K / USCAR-2

**"High-temp."**





 [Click for more detail](#)

**FPC / FFC**  
Pitch: 0.4~0.5mm  
Right-angle / Vertical

**"One-action"**



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**FPC / FFC**  
Pitch: 0.5mm  
Right-angle / Vertical


**"ZIF/LIF Variation"**




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**FPC / FFC**  
Pitch: 0.4~1.0mm  
Right-angle / Vertical

**"Add Value"**



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**Shield Lock**  
Height: 1.8/3.0mm

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INDUSTRIAL APPLICATIONS



SCAN FOR ALL PRODUCTS

## APPLICATIONS: SECURITY CAMERA

### Main PCB, Sensor

#### FPC / FFC Connectors

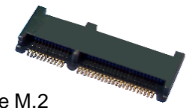
Right-angle / Vertical



- 0.3mm Pitch
  - 6293** Lower-profile, Back-lock
  - 6844** Space-saving, Front-lock
  - 6841** Space-saving, Vertical
- 0.5mm Pitch
  - 6298** Low pin count, Back-lock
  - 6809** Ease of use, Robust, Front-lock
  - 6288** Secure-lock, Front-lock
  - 6251** Secure-lock, Vertical
  - 6817** One-Action, RA / VT
  - 6244** Vertical, LIF (Non-ZIF)

### Module

#### Card Edge Connectors



- PCIe M.2
- 6411** Right-angle, H2.3 / H3.2

### Shield Case

#### Shield Locks

Height: 1.8, 3.0mm



- 8069** Better work efficiency

### Main PCB, Camera, Sensor, LED etc..

#### FPC / FFC Connectors

Right-angle / Vertical



- 0.3mm Pitch
  - 6293** Lower-profile, Back-lock
  - 6844** Space-saving, Front-lock
  - 6841** Space-saving, Vertical
- 0.5mm Pitch
  - 6298** Low pin count, Back-lock
  - 6809** Ease of use, Robust, Front-lock
  - 6288** Secure-lock, Front-lock
  - 6251** Secure-lock, Vertical
  - 6817** One-Action, RA / VT
  - 6244** Vertical, LIF (Non-ZIF)

#### Board to Board Connectors

Parallel



- 0.35mm Pitch
  - 5861** Power 5A, Lower-profile
  - 5863** Power 5A
  - 5843** Stacking height variations
- 0.4mm Pitch
  - 5804** Stacking height variations
  - 5846** Stacking height 3.0mm
- 0.5mm Pitch
  - 5046** Stacking height variations
  - 5047** Stacking height variations

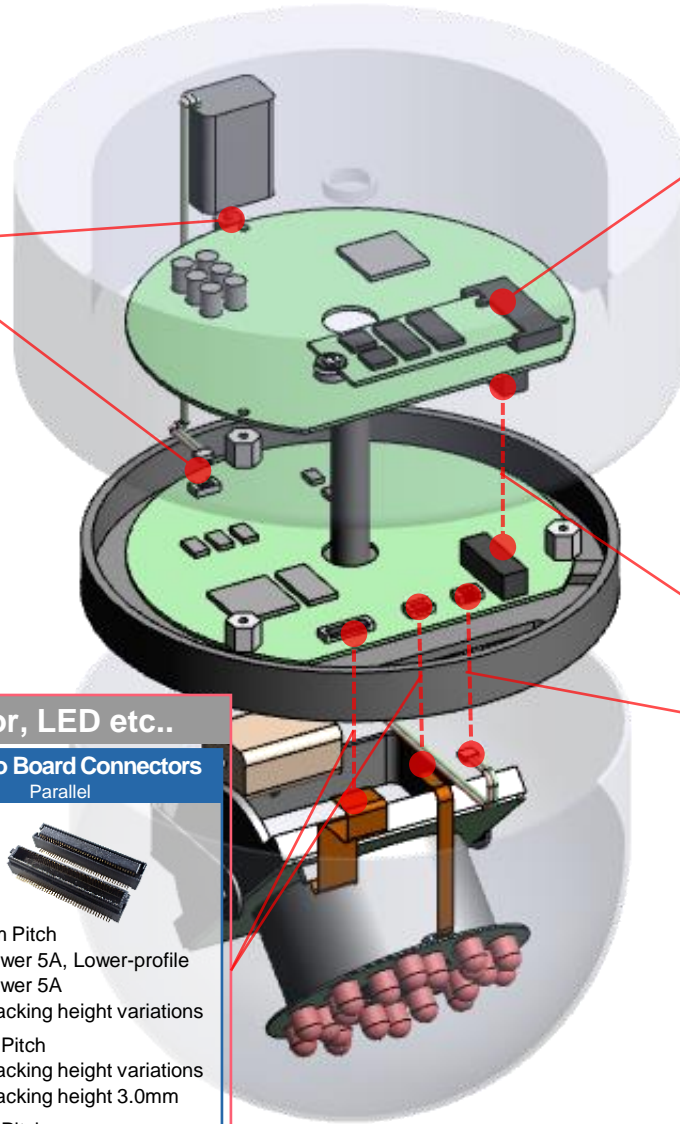
### Main PCB, Camera

#### Board to Board Connectors

Floating XY, Parallel



- 0.4mm Pitch
  - 8152** Lower-profile, with Shield
- 0.5mm Pitch
  - 5655** Stacking height variations














SCAN FOR ALL  
PRODUCTS

## PRODUCT SPECIFICATIONS:

### Board to Board Connectors

Series	<a href="#">7129</a>	<a href="#">5861</a>	<a href="#">5863</a>	<a href="#">5897</a>	<a href="#">5843</a>	<a href="#">5804</a>	<a href="#">5846</a>	<a href="#">5046 / 5047</a>
Image								
Pitch (mm)	0.35	0.35	0.35	0.35	0.35	0.40	0.40	0.50
Stack.H (mm)	0.70	0.60	0.80	0.80	0.8 / 1.0	0.9 / 1.5 / 2.0	3.00	3.0 ~ 7.0
Width (mm)	2.20	1.95	2.30	2.30	2.40	2.40	5.80	5.80
No. of Pos.	Signal: 2, 4 Power: 4	6 to 60	50 / 60	78	12 to 48	10 to 70	20 to 80	20 to 120
Current (Power)	6.0/10.0A (2 power-pin)	5.0A	5.0A	3.0A	0.3A (Signal)	0.3A (Signal)	0.4A (Signal)	0.4A (Signal)

### Floating Board to Board Connectors

Series	<a href="#">8152</a>	<a href="#">5652</a>	<a href="#">5655</a>	<a href="#">5656</a>
Image				
Connection style	Parallel	Parallel	Parallel	Parallel / Vertical
Pitch (mm)	0.40	0.50	0.50	0.50
Stack. H (mm)	3.5mm	15.0 ~ 30.0mm	4.0 / 5.0 / 6.0 / 7.0mm	17.0 / 18.0mm (Parallel)
Floating	XY±0.4mm	XY±0.85mm	XY±0.5mm	XY±1.0mm
No. of Pos.	30	10 ~ 180	10 ~ 100	40 ~ 60
Current	0.3A	0.6A	0.7A	0.5A

### FPC/FFC Connectors

Series	<a href="#">6866</a>	<a href="#">6844</a>	<a href="#">6293</a>
Image			
Type	RA	RA	RA
Pitch (mm)	0.20	0.30	0.30
Height (mm)	0.95	0.95	0.85
Width (mm)	2.70	2.70	3.70
No. of Pos.	21 to 71	11 to 61	9 to 61
Current	0.2A	0.2A	0.2A

### FPC/FFC Connectors

Series	<a href="#">6841</a>	<a href="#">6298</a>	<a href="#">6809</a>	<a href="#">6288</a>	<a href="#">6892</a>	<a href="#">6810</a>	<a href="#">6817</a>	<a href="#">6251</a>
Image								
Type	ST	RA	RA	RA	RA	RA/ST	RA/ST	ST
Pitch (mm)	0.30	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Height (mm)	3.60	0.90	0.93	2.00	2.20	RA: 4.04 ST: 6.00	RA: 2.60 ST: 5.32	5.45
Width (mm)	2.95	3.70	3.75	6.50	6.45	RA: 6.70 ST: 4.16	RA: 5.90 ST: 2.90	4.15
No. of Pos.	15 to 51	3 to 9	4 to 40	8 to 80	30 to 68	10 to 60	10 to 50	10 to 50
Current	0.2A	0.4A	0.5A	0.5A	0.5A	0.5A	0.5A	0.4A

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