HARWIN

CONNECT TECHNOLOGY WITH CONFIDENCE





AFLECTO FLOATING FLOATING CONNECTORS

FINE PITCH BOARD-TO-BOARD CONNECTORS WITH HIGH PIN COUNT

HARWIN



BBi CONNECTORS FROM HARWIN.

FINE PITCH BOARD-TO-BOARD CONNECTORS WITH HIGH PIN COUNT

Floating connectors with reduced requirement for positional accuracy during mating. Multiple board-to-board interconnection in one assembled PCB stack. Easy mating with lower stress on miniature contacts.

Flecto is designed to provide movement in the X, Y and Z axes of the male connector. The movement allows for added location tolerance, which is required when multiple connectors are used to connect the same two PCBs.

The mating area of the male connector can move by up to ±0.8mm from the centerline. This compensates for positional mis-alignment across multiple connectors. It also eases any stresses from misaligned connections, helping maintain the contact force over time. Gull-wing SMT terminations on the signal contacts allow easy solder inspection. Additional SMT hold-downs on the signal-only connectors give increased peel strength on the PCB. Location pegs or throughboard power pins provide assembly aids for PCB placement.

Up to 160 contacts in a symmetrical double-row layout. Wide range of board-to-board heights, with an additional horizontal option for 90° daughterboards. Three choices of miniature pitches: 0.5mm (.0197"), 0.635mm (.025") and 0.8mm (0.0315"). Additional power pins with a current rating of 3A in the 0.5mm pitch range.

FEATURES

- Movement in X, Y and Z axes during and after mating for multiple board-to-board connections
- Low-stress mated connections with mated heights up to 29.9mm nominal

RANGE

 Supplied in tape & reel for high volume surface mount assembly

APPLICATIONS

- Factory automation
- Electric vehicles
- LED Displays
- Security Cameras



SPECIFICATIONS

MATERIALS	ELECTRICAL	MECHANICAL	ENVIRONMENTAL
Housings: High Temperature LCP, UL94V-0	Current per contact: Up to 0.5A (signal) 3.0A max (power)	Durability: Up to 100 operations	Operating temperature: -55°C to +105°C (signal+power) -40°C to +105°C (signal only)
Contacts: Copper alloy	Maximum voltage: Up to 250V AC/DC	X / Y / Z axis misalignment: Up to ±0.8mm	Vibration resistance: 10-55Hz, 1.5mm pk-pk for 6 hrs
Contact Finish: Gold on contact area Gold or tin on terminations	Data rate: Up to 8Gb/s (0.50mm pitch) Up to 12Gb/s (0.635mm pitch) Up to 5Gb/s (0.80mm pitch)	Pitch: 0.50mm (.0197″) 0.635mm (.025″) 0.80mm (.0315″)	Shock resistance: 50G (490m/s²)
SMT Retention Tabs: Brass, Tin finish	Insulation resistance: 100MΩ min	Board-to-Board height (vertical): 5.98mm to 29.90mm nominal	Compliance: RoHS Compliant REACH / CMRT statements

Specifications are subject to change.





PRODUCT CATEGORIES

0.5MM PITCH SMT CONNECTORS – SIGNAL ONLY

Male connectors provide floating mechanism with ±0.5mm movement in X and Y axes. Fully shrouded & polarized (except for F12 connectors), SMT hold-down solder tabs and location pegs. Three heights available for female connectors, giving a selection of board-to-board heights between 7.65mm and 29.90mm nominal.

0.5MM PITCH SMT CONNECTORS – SIGNAL + POWER

3A power contacts, two at each end located on large guide pegs. Male connectors provide floating mechanism with ±0.6mm movement in X and Y axes. SMT terminations for signal contacts, throughboard terminations on power contacts. Hold-down solderable location pegs. Two heights available for male connectors, for 15mm or 20mm nominal board-to-board heights. Female connectors in vertical or horizontal configurations.





Specifications are subject to change





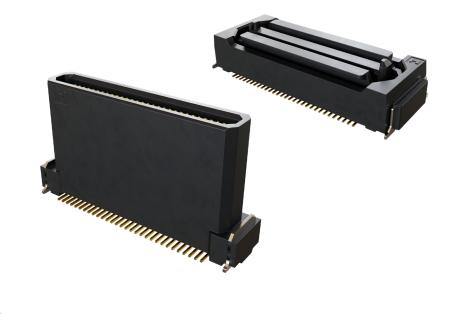
PRODUCT CATEGORIES

0.635MM PITCH SMT CONNECTORS – SIGNAL ONLY

Fully shrouded, SMT hold-down solder tabs and location pegs. Male connectors provide floating mechanism with ±0.7mm movement in X and Y axes. Three heights available for female connectors, giving a selection of board-to-board heights between 5.98mm and 14.88mm nominal.

0.8MM PITCH SMT CONNECTORS – SIGNAL ONLY

Male connectors provide floating mechanism with up to ±0.8mm movement in X and Y axes. Three heights available for male connectors, two heights for female connectors; selection of board-to-board heights between 8mm and 24.7mm nominal. SMT hold-down solder tabs and location pegs.





Specifications are subject to change





DOWNLOADS

TECHNICAL DOCUMENTS		TEST REPORTS	
Component Specification	ď	HT090 – Flecto General Testing	ď
PRODUCT TRAINING			
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Product Training Module (PTM)	ď		



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FOR FURTHER INFORMATION PLEASE CONTACT:

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