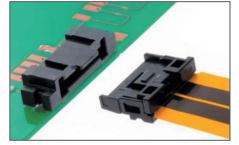
Flexi-Latch[™] 2.00mm Pitch Right Angle FPC-to-Board Connector System

Flexi-Latch[™] connectors provide secure mating assurance along with space and cost savings versus wire-to-board systems for rugged applications such as automotive lighting or industrial controls

Features and Benefits

Cable retention force of 20N	Provides secure mating retention force that meets automotive shock and vibration requirements	
Positive inertia lock	Prevents partial cable insertion for secure mating	
Audible click when mated	Offers additional mating assurance	
Multiple polarizing keys	Prevent against incorrect cable insertion	
-40 to 125 degrees operating temperature range	Meets automotive requirements	
FPC retention tabs	Position cable for proper mating and prevent cable drop-out during assembly	



Flexi-Latch™ FPC-to-Board Connectors 505147 (left): Right-Angle PCB Connector; 505148 (right): Cable Plug Jacket

Markets and Applications

Home Appliances

Industrial

Gaming/Pachinko Machines Medical equipment Lighting

Automotive & Transportation

Lighting Comfort and Infotainment Factory Automation equipment



Game Machines



Robots



Car Headlights



Car Audio

Specification

REFERENCE INFORMATION

Packaging: Terminals: Reel; Housings: Bags; SMT PCB Receptacles: Embossed Tape Designed In: Millimeters RoHS: Compliant Halogen Free: Yes Glow Wire Compatible: No

ELECTRICAL Voltage (max.): 50V AC/DC Current (max.): 1.5A max. Contact Resistance: 40 milliohms max. Dielectric Withstanding Voltage: 250V AC for 1 minute Insulation Resistance: 50 Megohm min.

MECHANICAL Durability (min.): 25 cycles FPC Retention Force: 20N min.

PHYSICAL

Material: Connector Housing: LCP, UL 94V-0, Black Plug Jacket Housing: PBT, UL 94V-0 Black Terminal: Copper Alloy Plating: Contact Area — Gold Solder Tail Area — Tin Underplating — Nickel Operating Temperature: -40 to +125°C

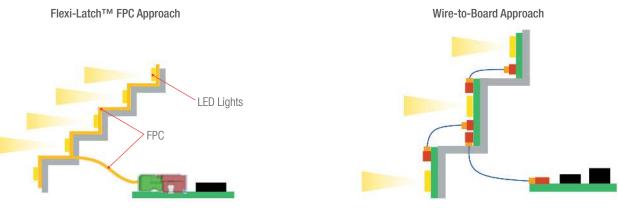
molex

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Additional Product Features

Space and Cost Savings Versus Wire-to-Board



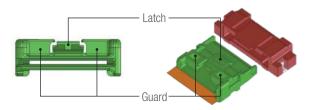
In applications such as automotive head-lights,

the Flexi-Latch™ system provides space savings and reduced component costs versus wire-to-board connector systems

Clear Click Feeling for Secure Mating (20N of Cable Retention Force That Meets Automotive Shock and Vibration Requirements)

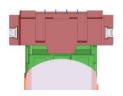
Before Mating

The height of the latch is lower than the guard, which contributes to the click feeling.

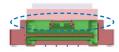


During Mating

There is a clear click feeling when fully mated



The operator's finger does not push down on the latch—like in many outer-lock designs—which allows for a better click feeling.



Ordering Information

Series No.	Circuit Size	Description
<u>505147-0290</u>	2	Right-Angle Connector
<u>505147-0390</u>	3	Right-Angle Connector
<u>505147-0490</u>	4	Right-Angle Connector
<u>505148-0208</u>	2	Cable Plug Jacket
<u>505148-0308</u>	3	Cable Plug Jacket
<u>505148-0408</u>	4	Cable Plug Jacket