

Molex's new 0.50mm pitch FFC/FPC connector with cable-tab feature offers the best combination in the market of space savings, cable retention and usability in a cost-effective design.

One of the key features versus competitive versions of the new 503366 series is the robust Easy-On actuator and cable-tab feature. This makes it easier for operators to guide the cable in and be sure it is fully seated. Competitive versions offer front-flip actuators with no cable retention feature or slide-style actuators that make it difficult for operators to insert the cable.

The Molex Easy-On™ actuator also rotates back 115 degrees, more than any other competitive version, to provide a wide access area for cable insertion and extraction.

This new connector has been designed to incorporate some of the features such as robustness found in other Molex connectors used in Flat-Panel applications, but in a more cost-effective design. Made with high-temperature material that meets RoHS and halogen-free requirements, the connector has also been designed to meet rigorous environmental standards.

For additional information visit: www.molex.com/product/smt_ffc-fpc.html

FFC/FPC Connector
0.50mm Pitch
SMT, Easy-On™
Front-Flip Type, Bottom
Contact, 2.00mm Height
503366 Right Angle



FEATURES AND BENEFITS

Features

- Low profile and compact design
- Cable-retention feature that accepts FPC with ears
- Easy-On™ actuator that opens 115 degrees
- High-temperature housing material
- Low-Halogen compliant

Benefits

- Space savings for Flat Panel TV and other high-end electronic applications
- Provides cable guidance and secure retention
- Facilitates easy cable insertion, extraction and alignment
- Withstands extreme temperature environments and helps provide good co-planarity control
- Meets preferred environmental standard level for Flat Panel TV makers

SPECIFICATIONS

Reference Information

- Packaging: Embossed Tape
- Use With: FFC or 0.30mm thick FPC
- Designed In: mm
- RoHS Compliant: Yes
- Low-Halogen Compliant: Yes

Electrical

- Voltage (max.): 50V
- Current (max.): 0.5A max.
- Contact Resistance: 40 milliohms max.
- Dielectric Withstanding Voltage: 150V AC
- Insulation Resistance: 50 Megohms minimum

Mechanical

- Durability (min.): 20 cycles

Physical

- Housing: Glass-filled Liquid Crystal Polymer
- Actuator: Glass-filled PPS
- Colour: Black
- Flammability: UL 94V-0
- Terminal: Phosphor Bronze
- Plating:
 - Contact Area — Gold
 - Underplating — Nickel
- Fitting Nail (Solder Tab): Phosphor Bronze
- Plating: Tin

MARKETS AND APPLICATIONS

- LCD and PDP Flat Panel Display
- Optical Disk Drive
- Car Audio
- Notebook PC
- Tablet PC
- Portable Game LCD
- Personal Navigation Equipment



LCD and PDP Flat Panel Display



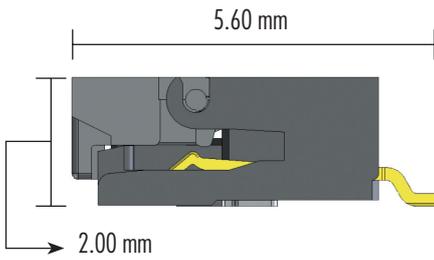
Optical Disk Drive



Car Audio

FEATURES AND BENEFITS

Compact Size

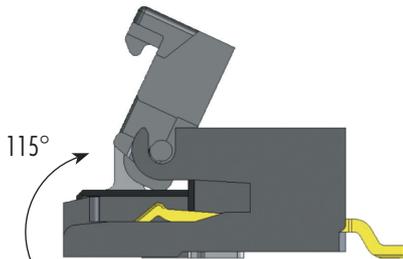


Molex's connector design offers the most compact size in terms of height, length and width compared to competitive versions.

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503366 Right Angle

Wide Cable Entry



The Easy-On actuator from Molex provides the widest cable entry angle amongst competitive versions for easy cable insertion and extraction.

ORDERING INFORMATION

Connector

Circuit Size	Order No.
60	503366-6011
80	503366-8011