



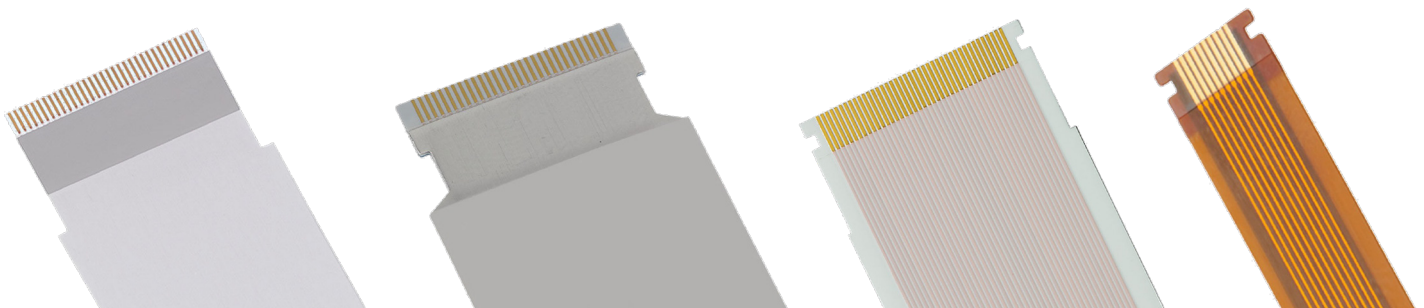
## PREMO-FLEX HIGH-SPEED LVDS SOLUTIONS >

### PRODUCT OVERVIEW

Premo-Flex High-Speed Low-Voltage Differential Signal (LVDS) Solutions deliver flat flexible cables (FFCs) ideal for a variety of high-performance applications. Molex's extensive range of standard off-the-shelf and custom options provides designers with reliable, high-speed data transmission and excellent signal integrity.

### SOLVING INDUSTRY CHALLENGES

INDUSTRY CHALLENGE	PRODUCT SOLUTION
<b>HIGH-SPEED DATA TRANSMISSION</b> High-performance applications require fast and reliable communication.	Premo-Flex LVDS FFC solutions support data rates in the 2 to 10 Gigabit per second (Gbps) range, making them ideal for high-speed digital interfaces such as video displays, cameras and data buses with 100 Ohm-controlled impedance.
<b>DIFFERENTIAL SIGNALING</b> Manufacturers require proven LVDS solutions that can meet specific design and schedule needs.	Molex produces a wide range of custom and off-the-shelf Premo-Flex LVDS cables that use differential pairs of signals for data transmission. This differential signaling helps cancel out common-mode noise and provides superior signal integrity, reducing the risk of signal degradation and errors.



# PREMO-FLEX HIGH-SPEED LVDS SOLUTIONS >

## FEATURES AND ADVANTAGES



### HELPS MAINTAIN SECURE CONNECTIONS FOR FAST DATA TRANSFER AND EXCELLENT SIGNAL QUALITY

LVDS cables ensure a reliable connection while minimizing both noise and signal loss, upholding superior signal integrity with high-speed connections



### TERMINATES TO FULLY MATE WITH A WIDE RANGE OF MOLEX EASY-ON CONNECTORS

Options include zero-insertion force (ZIF), non-ZIF and low-insertion force (LIF) FFC connectors



### PERMITS USE IN A VARIETY OF APPLICATIONS

Product offerings include Gold-plated contacts and a wide range of cable length, current capacity and flex life cycle options for design flexibility



### INCLUDES OFF-THE-SHELF OPTIONS FOR FASTER TIME TO MARKET

Custom and off-the-shelf solutions are available to match customer performance and scheduling needs

## APPLICATION SPOTLIGHT

### PROVIDING HIGH-SPEED DATA TRANSMISSION AND EXCELLENT SIGNAL INTEGRITY FOR HIGH-PERFORMANCE APPLICATIONS

Consumer, automotive, medical and industrial devices that use high-speed digital interfaces — such as video displays, cameras, touchscreens and data buses — require reliable and error-free signal transmission. Premo-Flex High-Speed LVDS Cables feature differential pairs for improved signal integrity and offer data speeds in the 2 to 10 Gbps range for use with a wide variety of applications:

- | Cameras
- | Televisions
- | Automotive LCD displays
- | GPS devices
- | Phones
- | Vehicle infotainment systems
- | Medical monitoring devices
- | Virtual cockpits

## ORDERING INFORMATION

Series	15021	15022	15023	15026
Pitch (mm)	0.50			
Current (A) per Contact	0.5			
Latch Type	Straight	Flexi-Latch	Notched	One-Touch
Retention Force (N) (min.)	N/A	9.8*	13*	23
Easy-On Connector Series	502244, 502231	501786, 501864	503908	200485
Plating	Gold			
Max. Voltage	30V AC			50V AC (RMS)/DC
Differential Line Impedance (Ohms)	100±10			
Operating Temperatures	-40 to +80°C			-40 to +105°C

\*According to connector specification

[www.molex.com/en-us/products/cable-assemblies/flat-flexible-cables-ffc](http://www.molex.com/en-us/products/cable-assemblies/flat-flexible-cables-ffc)

**molex**