



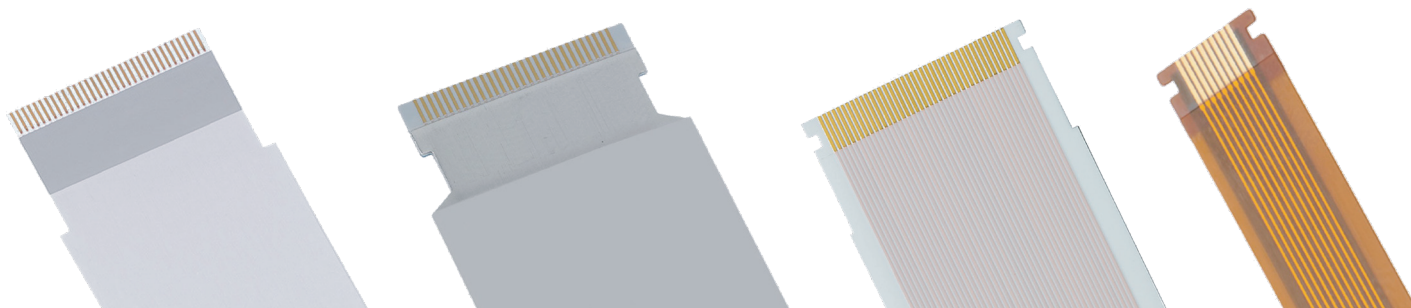
## PREMO-FLEX HIGH-SPEED LVDS SOLUTIONS >

### 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 90 Ohm-controlled impedance for USB connections and 100 Ohm-controlled impedance for HDMI high-speed digital interfaces such as video displays and cameras.
<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 &gt;

## 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	15922
Pitch (mm)	0.50				
Current (A) per Contact	0.50				
Latch Type	Straight	Flexi-Latch	Notched	One-Touch	Flexi-Latch
Retention Force (N) (min.)	N/A	9.8*	13*	23	9.8*
Easy-On Connector Series	502244, 502231	501786, 501864	503908	200485	501786, 501864
Plating	Gold				
Max. Voltage	30V AC			50V AC (RMS)/DC	30V AC
Differential Line Impedance (Ohms)	100±10				90±10
Operating Temperatures	-40 to +80°C			-40 to +105°C	-40 to +80°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)

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