



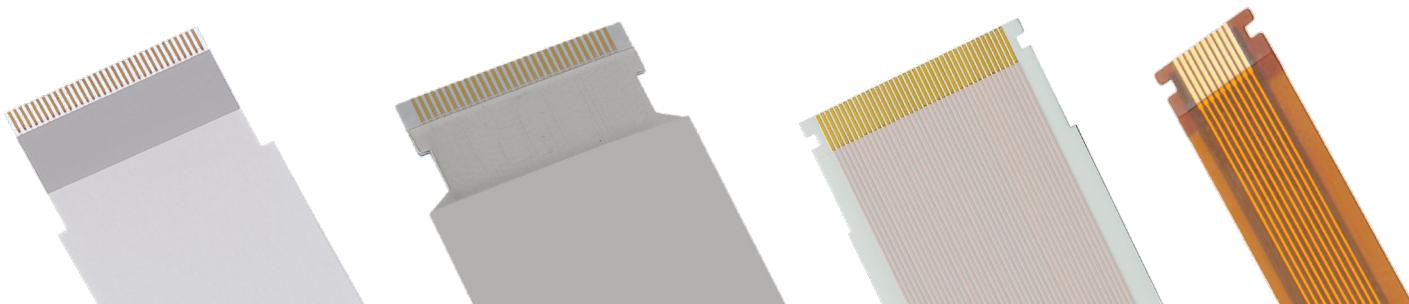
PREMO-FLEX HIGH-SPEED LVDS SOLUTIONS ➤

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
HIGH-SPEED DATA TRANSMISSION 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.
DIFFERENTIAL SIGNALING 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

Phones

Televisions

Vehicle infotainment systems

Automotive LCD displays

Medical monitoring devices

GPS 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

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